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MONOGRAPH.

ART. XI.—A Statistical Inquiry into the Causes, Symptoms, Pathology, and Treatment of Rupture of the Uterus. By James D. Trask, A.M., M.D., Brooklyn, New York. Read before the Brooklyn Medical Association, Oct. 14th, 1847.

The principal object in undertaking the examination of this subject after the plan adopted in the following paper, was that of determining, if possible, the most successful course of treatment of rupture of the womb, when accompanied by certain conditions which embarrass delivery, and for

our conduct under which we have now no definite guide.

At the present day, we imagine that there are few, if any, who would advocate the course formerly pursued, of abandoning all cases of rupture to nature. For many years the profession in England and in this country, influenced by the high authority of Dr. William Hunter, and afterwards by that of Dr. Denman, carefully abstained from any attempt at delivery, as calculated only to increase the patient's suffering, and to diminish her

chance of recovery.

This opinion and practice prevailed, notwithstanding several successful cases of delivery in France and Germany, until the year 1781, when Dr. Douglas resorted to artificial delivery, and his patient recovered. Since his time, the universal judgment of the profession appears to be, that delivery, when practicable, should in all cases be resorted to. When a favourable condition of the soft parts, and a proper correspondence between the head and the pelvis will allow of the introduction of the hand, and delivery by version, all authorities agree in recommending it. But when obstacles to a speedy and casy delivery exist, as from contraction of the edge of the rent, after the escape of the fætus into the peritoneal cavity, or from an undilated os uteri, or from a contraction of the pelvis, or partial elestre of the vagina, the rule of practice is by no means determined, and great diversity of opinions exists as to the proper course to be pursued. In each of these cases, we are advised by different authorities to opposite lines of conduct.

Of rupture occurring during pregnancy, Burns, p. 266, after discountenancing forced dilatation of the os, and preferring to it the Casarean section, adds, "but this ought not to be performed, unless we can thereby save the child, or the patient has reached an advanced period of pregnancy." "To leave the case to nature, is most likely to be successful, especially when the rupture happens in the early months." Of rupture during parturition, at page 478, he remarks, "when the os nteri is rigid, and very little dilated before the accident happens, and cannot be opened without extreme irritation, or when the uterus is spasmodically and violently contracted between the rent and the os uteri, I consider attempts to deliver as adding to the danger. In such cases, and in deformity of the pelvis, we must perform the Casarean section or leave the case to nature." "If called carly, while the child is yet alive, before the abdominal viscera are irritated by the presence of the fætus, we are warranted to extract the child by a small

incision;" and even after many hours have clapsed, he thinks gastrotomy by a small incision offers a better chance than a delivery through the rent, though he does not venture an opinion on the relative chances of gastrotomy and non-interference.

Merriman, in his Synopsis, (James' edition, p. 151,) says, "if some hours had elapsed after the parts had given way, or if there were a difficulty in passing the hand on account of contraction of the uterns, it would

then perhaps be more prudent to leave the event to nature."

Velpeau, in Arch. Gén. de Méd., tom. iii. 4th series, considers it improper to recur to extreme surgical means, until all attempts to return the child into the uterns, whether it has escaped either partially or wholly from it into the abdominal cavity, have failed.

Dewees says, when the child has escaped into the abdomen, "the delivery, per vias naturales, may be either difficult or impossible, even in a well-formed pelvis;" "the only chance in this case is, the immediate performance of gastrotomy; should a contracted pelvis complicate the case,

the latter operation is the only alternative."

F. Ramsbotham (Process of Parturition), remarks, "feeling as I do, that to leave the child in the cavity of the belly is almost certain death to the mother, I should seriously entertain the question whether the parietes of the abdomen should be divided and the child extracted by that means, or whether the patient should be abandoned to the chance of what nature might effect; and the answer innst depend entirely on the circumstances of the individual case. If she were in tolerably good spirits, if she had not suffered so great a shock as usual from the accident, particularly if, after explaining to her what had occurred, she were anxious for the operation to be performed, I should have no hesitation in undertaking it. But if I found her sinking, if the powers of life were ebbing fast, and particularly if thirty or forty minntes had elapsed since the rupture, and the movements of the fetus had quite ceased, I should by no means sanction the incision, because of the painful nature of the operation, and because I should presume it would avail nothing, and might probably hasten her death."

Dr. Davis (Obstetric Medicine), merely says, "inasmuch as laceration of the womb is not an essentially mortal accident, such services (delivery) must unfortunately be sometimes undertaken, and therefore ought to be judiciously executed." "We should interfere without loss of time when the circumstances might appear urgent and desperate, and abstain from such interference when the nature of the symptoms might promise a proba-

ble successful issue without it."

Jacquemier (Man. des Accouch., tom. ii. p. 300), says, "when the contraction of the rent or of the neck, which cannot be overcome with advantage, in case it remains rigid or imperfectly dilated, will not allow the hand to penetrate the cavity of the perioneum, or when the pelvis is contracted to the degree of rendering the extraction of the fectus uncertain even after diminishing the volume of the head, there remain no other resources than gastrotomy, or leaving the whole to nature." Gastrotomy, he says, offers chances of recovery less unfavourable than those of abandonment, especially if the operation be performed before symptoms of inflammation present themselves.

Dr. Robert Lee, in his late work, p. 436, advises resort to perforation when the head presents; and that when the child has passed through the rent into the abdomen, an attempt should be made without delay, to deliver by grasping the feet. "If a considerable time has elapsed after the acci-

dent, and the uterus has contracted so closely that the hand cannot be passed through the orifice and the rent, the best practice would be to leave the case to nature. Some have recommended gastrotomy under these circumstances; but the child is already dead, and the mother could hardly be expected to survive after such an operation." If the fætus has escaped into the peritoneal cavity, the patient, he says, may recover without gastrotomy.

Colombat (Amer. edition, p. 236), says, "if the child have not passed entirely into the abdomine" cavity, we should always endeavour to terminate labour by the natural passages; but in the contrary case, recourse must be had to gastrotomy, because this extreme means offers some chance of safety to the mother, and especially to the child, which would indubitably

perish unless we should act with great promptitude."

"But what is to be done," inquires Dr. Blundell, "where the feetus is in the abdominal cavity and cannot be reached, the child being inaccessible in consequence of the contraction of the aperture? Why, if there seemed to be a disposition to rally a little, I should feel inclined to try palliatives, if these were indicated, and I should leave the patient mainly to the natural resources." "But what if the child should escape into the peritonneal sace and if, further, the symptoms, being most alarming, there should appear to be no hope for the woman in her natural resources? Why, in such cases, it would be for sober consideration, whether it might be advisable to have recourse to abdominal incision, provided the patient would heartily consent." The success of one case referred to by him, he thinks, offers encouragement, but he inquires in a note, does it "belong to an anomaly or a general principle?"

Dr. Collins, in his "Practical Treatise," is decidedly in favour of perforating the head when it presents and does not recede. "When the child has escaped out of the uterus, it is now the general practice, and undoubtedly the best, to introduce the hand through the lacerated parts into the cavity of the abdomen, and bring down the feet." "In cases where laceration has occurred previous to the os uteri being dilated, it is thought the best chance of recovery would be to open the parietes of the abdomen, cut into the uterus, and so extract the child." This, he thinks, can scarce ever

occur except as the result of external violence.

Dr. James Hamilton (Pract. Observ., p. 111), says, "if, from the state of the passages, the infant cannot be drawn forward through the usual apertures, the parietes of the abdomen should be divided."

Churchill (Amer. edit., p. 372), says, "in some cases of ruptured uterus, when delivery is imperative, but impracticable, per vias naturales, the Casarean section has been proposed. It appears to me the additional risk

from the operation, renders its propriety very questionable."

Among these, it will be seen that there is a great variety of sentiment as well as contrariety. Thus Blundell and Davis would not attempt delivery so long as there appeared to be any chance of recovery undelivered. Lee and Merriman would abandon the woman unconditionally when the rent has become diminished by contraction. Burns and Ramsbotham would be rather disposed, under these circumstances, to practise gastrotomy early, the former by a "small" incision. Blundell would wait until there should be no chance of recovery if left alone. Velpean would try every other mode before resorting to gastrotomy. Dewees, on the contrary, says the only chance is in its immediate performance. Churchill considers its propriety very questionable. Jacquemier would perform gastrotomy where there should be so great contraction as to render it doubtful whether the fectus

could be extracted after perforation. From the tenor of Dewees we infer that he considers it expedient in contractions of a less degree than what

would absolutely prevent delivery per vias nuturules.

These directions are given, for the most part, by those who are regarded as of standard authority; and the countenance of either would be considered a full justification for following the course recommended by him; but where there is so great disagreement as to the proper course, it is evident that they cannot be regarded as equally safe guides.

There is, then, no established rule of practice under the circumstances to which we allude. By men of equally high reputation we are advised, to nbandon to nature, and to practiso gastrotomy, in cases of rupture and escape of the fœtus; and when, from a contraction of the pelvis, or an undilatable os uteri, or contraction of the vagina, serious obstacles are presented to speedy delivery, some advise the removal by the natural passages of the fœtus, mutilated, while others affirm that the abdominal section affords the patient the best chance of recovery.

Since neither of these opinions can be referred to as of controlling authority, were it not for the acknowledged great fatality of the accident, under any course of management, he who practised the more heroic course would be censured by those who have taken their rule of practice from Merriman, Blundell, Davis and Lee; and the disciples of the latter charged with eulpablo neglect, by those who believe in the propriety of active in-

The difference in individual opinions may arise from a mere partial examination of the subject, or from prejudice in favour of or against particular operations under any circumstances; and especially from the result of cases in which each may have happened to be personally concerned. A successful caso of gastrotomy would be pretty certain to induce a repetition and recommendation of that practice under like circumstances, while an unsuccessful termination would probably discourage from n similar attempt in future.

Although rupture of the uterus is comparatively a rare accident, the determination of the practice to be pursued under all conditions of its occurrence, is a matter of the highest practical importance. If the chance for the unfortunate patient's recovery is at the best small, it surely is a matter of great moment, under circumstances of peculiar difficulty, to know what course presents the greatest probability of a favourable issue. In other words, it is our duty to inquire, which places the woman in the most favourable condition for recovery, when the fectus has escaped into the abdomen, and the uterus is contracted—the abandonment of the patient to the resources of nature, or delivery by gastrotomy? And when, from any cause, such a disproportion exists between the fætus and the maternal passages, as to render delivery per vius nuturules difficult, does the prompt removal of the fœtus, by an operation itself severe, but still of very short duration, and which allows the patient almost at once to rally, or the tedious, painful, and often long protracted procedure of dragging it, mutilated, through the natural passages, afford the best chance of immediate security, and place her in the best situation for ultimate restoration to health?

Rupture of the womb is undoubtedly one of the most appalling accidents that can complicate labour. Interference must be judicious; delay may compromiso the patient's existence, and improper interference may hasten the fatal end. Probably the accoucheur is never called to act under circumstances in which he feels more the need of the support afforded by well established principles of action; not only us a relief for the anxiety by which he is oppressed, but that he may be secure from the charge of rashness on the one side, and of incapacity and inertness on the other.* It is true, that in the instances just spoken of, in a medico-legal point of view, either course of conduct is perfectly justifiable, in the present absence of unequivocal authority for one or the other; but, nevertheless, it must be admitted, that this fact is but a proof that the principles of practice should, if possible, be determined. Especially is it desirable that we should be acquainted with every circumstance that may materially affect the issue, if what F. Ramsbotham states is generally true, where he says, p. 425, "I have seldem known a case in which the uterus ruptured, where the attend-

ant was not more or less blamed."

Such principles can only be discovered by ascertaining the collective experience of the profession at large; and this can be obtained only, by a careful comparison of the cases reported by authors on midwifery, and of such as form contributions to periodical medical literature. The great design of these contributions is, or should be, the recording of isolated facts, which, taken by themselves, may be entertaining from their unusual character, and perhaps instructive from the practical lessons they convey, but whose highest value appears only when they are taken collectively. Grouped and collated, they serve as data from which principles of practice may be determined, so soon as they have accumulated sufficiently to render such deductions safe. To be fully adapted to this important end, every case should be reported with a fullness of detail, whenever it is possible, which shall leave no essential point unnoticed. The more complete the narration of its particulars, the more available is it for the advancement of accurate information. This consideration seems not to be kept sufficiently in view by those who publish cases; and a largo proportion of the histories of ruptured uterus leave many important points unnoticed. Somo furnish but one or two particulars, and a large number of cases must be collected to furnish anything like a proper number of observations upon any one point. This is, however, the only mode that we have of acquiring the general history and results of the accident we are treating of, and we trust that notwithstanding its imperfections, it may lead to important conclusions. In some instances, moreover, we are aware that it is impossible to obtain all the particulars essential to a complete history.

We are not ignorant of the difficulties attending an examination of the subject in the manner proposed. So many conditions come in to modify the results, as constitution, circumstances in life, &c., that scarce any two cases admit of a fair comparison in all respects; nevertheless, we have sought to note the prominent conditions that might influence the result, and

as far as possible make allowance for them.

In pursuance of our design, of ascertaining what the experience of the profession at large has shown to be the most successful course in the management of rupture of the utcrus, we have examined aearly all the treatises in our language upon midwifery, diseases of women, &c., and the large collection of foreign and domestic journals in the New York Hospital Library. The monographs of Douglas, Ingleby, and Duparque, the collections of Perfect and Baudelocque, and a volume published by Dr. Dewees, of observations on particular subjects, we have been unable to obtain access to; this is to be regretted, as they would have furnished additional eases. Our grateful acknowledgments are due to the liberality of Profs. W. Chaa-

See report of a discussion upon a case in which gastrotomy was performed, in Lond. Lancet, 1828-9, vol. i. p. 310.

ning, of Boston, C. D. Meigs, of Philadelphia, and G. S. Bedford, of New York, who occupy distinguished positions as teachers and practitioners of midwifery, and who have kindly placed at our disposal histories of eases of rupture never before published, which their extensive experience has brought under their observation; and also to other gentlemen who have aided us by eases, and the use of their libraries.

In making the collection from Journals and anthors, there has been constant necessity of guarding against recording the same case more than once, since it is not unusual to find the same quoted in several journals, in part in full, in part abbreviated; thus rendering it often difficult to be identified. Part are quoted at second hand, the originals not being ac-

cessible.

These eases were analyzed and tabulated under the heads of Age, Health, and Condition—Character of Previous Labour—Nature of the Labour, and its Duration—Time from Rupture to Delivery—Mode of Delivery—Time occupied in Delivery, and whether difficult or not—Hernia of the Bowels, &c., accompanying it—Time from Rupture to Death or to Recovery—Post-mortem Appearances—Presumed Cause of Rupture.

In this way, by casting the eye up and down the column, a complete view was presented of all that the whole series furnish under a given head, and an opportunity was afforded of comparing cases of the accident,

occurring under great varieties of circumstance.

The abstracts thus obtained, have been compared with the histories that

furnished them, twice, and in several instances oftener.

We have mentioned sources from which cases could have been obtained, to which we have not had access; there are probably others reported in the Continental journals of Europe, and perhaps in the journals of this country, which have not come under our notice; but from the frequency of quotations of cases of interest, probably not a large number have been omitted. The number collected is considerably larger than has, to our knowledge, been before brought together, being over three hundred. In consequence of the inconvenience of large tables, the analysis of each case has been copied in the form of a brief but continuous history. This abstract is published in order to present a series of cases that should exhibit the different phases which this accident may assume, as its phenomena are made to differ by conditions peculiar to each case. A much greater impression is made upon the mind by the pernsal of several cases presented in succession, than by any general description, however extended it may be, or any mere statement of the proportion of instances in which given symptoms occur. Again, as the object of this inquiry is the truth, if our inferences are incorreet, the mistake may be readily pointed out. The eases being gathered from a great variety of sources, it is hardly to be supposed that the pains would be taken to recur to the original account, and many of them would be inaccessible to a large portion of our readers, if merely referred to.

We have arranged these eases, so as to bring together by themselves those occurring during gestation, and those met with during parturition. This distinction is made rather as a matter of convenience, than with reference to any essential differences in the accident as occurring under these two conditions. The rupture itself, during pregnancy, is more usually the first of the train of morbid symptoms, whereas in parturition, it usually succeeds labour pains of longer or shorter duration; and yet this is by no means universal. As exhibiting the general features of the accident when occurring during pregnancy, these cases have been grouped together; but

inasmuch as in several instances rupture has occurred when labour has come on, or been artificially induced, before the full period of gestation, this distinction could not in all cases be regarded, and has not been rigidly adhered to. We have numbered each individual case, even though it was merely referred to in the original from which it was copied; several, for example, merely state that the woman died undelivered. This statement, in so far as it goes, is as valuable as a more elaborate account, and such are numbered for subsequent reference.

I .- Cases of Recovery from Rupture occurring during Gestation.

CASE I.—At the sixth month of pregnancy violent pains occurred, without any previous unusual symptoms—sudden vomiting, faintness and sense of distension of the abdomen—gastrotomy two hours after the accident. Recovered in fourteen days.—Lond. Med. Gaz., vol. i. p. 101, from Report. Méd. Chir. di Torino.

Case II.—A healthy peasant, at. 35—mother of four. About soven and a half month, suffered a severe blow on the abdomon, and felt a sovere tearing pain. Factus could be felt in the abdomen—etald had ceased to live—usual alarming symptoms of rupture absent. After several days part of a putrid facus escaped per viginam, and part was extracted, as there were well marked symptoms of metritis. After a few days the rest escaped through an opening in the abdomen five inches in diameter. Menses returned in less than two months.—Brit. and For. Med. Rev., vol. v. p. 581, from Nægelé in Neue Zeitschrift für Geburtskunde.

CASE III.—A:1. 35—whou, as she supposed, five months gone, seized with nterine contractions and abdominal tenderness. Six weeks before this, after violent pumping, felt a strange sensation in the abdomen, with faintness, and did not recover strength. The tenderness continued three or four days with sharp pain; soon the focus could be felt in the peritoneal cavity after an attack of hemorrhage. Ten days after this a focus of about seven mouths was expelled. The placenta had partly escaped through a rent in the upper and back part of the left side of the uterns. Another focus could still be felt in the abdomen. After a few months she remained feeble.—Dr. Randall, Lond. Med. Gaz., vol. xxix. p. 45.

Case IV.—Had undergone Cresarean section fourteen months before. At the seventh month labour-pains came on, and symptoms of rupture, and child passed into the abdominal cavity. Between the lifecenth and twentieth day after, the cicatrix of the abdomen gave way, and a putrified fectus escaped. Recovered.—Brit. and For. Med. Rev., 1844, p. 537, from L'Expérience, Nov. 1843.

Case V.—Æt. 28—deformed by rickets; had been delivered by Cosarean section. At fourth month of her next pregnancy an ulcerated spot appeared on the abdomen near the cicatrix, which, during two mouths, increased—a slight enaching was heard, the abdominal parietes gave way, and the fetus escaped into the world. The direction of the rent of the uterns was unascertained, that of the abdomen was transverse. Within three months the menses returned.—Edin. Mcd. and Surg. Journ., 1845, vol. i. p. 515, from Allegem. Report., 1844. Dr. Præl.

Case VI.— At. 36—ninth pregnancy; fell from her bed in the second month, and afterward suffered great disorder in the utorine region. Severe constitutional symptoms appeared until the tenth month, when an absects opened in the umbilical region. The opening was enlarged, and then the factus extracted piecemeal. Recovery rapid; rupture probably occurred at the second month.—Dr. Salemi, from Journ. de Progrès, vol. iii., in the N. Am. Med. and Surg. Journ., vol. iii. p. 252.

Case VII.—Æt. 24—unmarried; full habit; seventh month. Violent griping pains existed for three days in the abdomen, and the membranes were found ruptured. Extremely violent and distressing pains eame on; the ost ender and undilated. After intolerable agony, the child was expelled with great force; putrid. The posterior and inferior segment of the uterns was torn off, attached by less than two inches in front. The intestines filled the brim of the pelvis. The intestines were returned, and the lip of the cervix replaced. Condition extremely dangerous for many days, discharging immense quantities of dark offensive fluids

from the vagina. Seven menths afterwards the vagina was blocked up by a very hard, insensible substance, and her health delicate.—Mr. Wood, Lond. Med. Repos., vol. xv. p. 450.

Case VIII.—Nothing peculiar in the pregnancy. At seventh month seized with violent bemorrhage and slight pain, which continued and increased, and next day she was delivered by version, the shoulder presenting. On removing the placenta, the nterus was found ruptured at the posterior and inferior parts; and there was hornia of the intestines through the rent. Recovered in three weeks, and had another child.—Men. Med. Soc. Lond., in Edin. Proct., vol. v. p. 584.

CASE IX.—Act. 20. In the ninth month, a sudden fainting fit and severe pain in the abdomen. Fortus discharged through a fistulous opening in the abdomen. Recovered.—Lond. and Edin. Month. Journ., 1842, from Gaz. Méd., 1841.

CASE X.—Rupture in fourth month; terminated by suppuration at the navel, and excrements discharged at the opening for some time.—Burns' Midwif., p. 264, from Dr. Drake, in Phil. Trans., vol. xiv. p. 121.

Case XI.—A washerwoman at Brent—inplore from a fall in seventh month—forms ultimately expelled at the navel.—Ibid., from Mém. Acad. Science, 1709.

CASE XII.—Sixth month; fall; rnpturo; immediate fainting; discharge from the vagina; child expelled per annu.—Ibid., from Mem. Acad. Sci., 1706, Guillerm.

II. Cases of Rupture before the Termination of the full period of Gestation, which did not Recover.

CASE XIII.—Æt. 26—third pregnancy; nothing nunsual in previous labours. Awakened in the morning by severe pain about the ambilieus, succeeded by yomiting, maccompanied by pain. Died in eighteen hours aller upture.

vomiting unaccompanied by pain. Died in eighteen hours aller inputer.

Post-mortem.—Cavity of abdomen filled with blood; rupture in the fundus, through which the featus had escaped.—Mr. Hott, Lond. Med. Repos., vol. vii. p. 375.

Case XIV.—Ah. 43—twelfth pregnancy; corpulent, but active; of perfect make. Without any regular labour-pains, she suddenly had two very violent—the os hard, undilated and high up; peritonitis supervened. On thirteenth day a putrid fectus was "extracted," after which she gained for n few days, but sunk on the twenty fifth day from rupture.

Post-mortem.—The focus had escaped into the eavity of the peritoneum, and a sae had been formed around it.—Lond. Med. Repos., vol. xxi. p. 327, from Transacts.

of Apothecaries.

CASE XV.—At the sixth menth seized with strong pains, lasting three or four hours; motions of the fectus ceased—death after several hours.

Post-mortem.—'The forms swimming in blood, in the midst of the intestines—bifid nterus—rent in one division.—Dict. des Sci. Méd., vol. xlix., from Anatomie de Dionis.

Case XVI.—At the fourth month symptoms of rupture occurred. After this she menstructed, and four months after the rupture died.

Post-mortem.—A rupture closed and eleatrized on the internal surface, but still open toward the abdomen; a fætus was found in the abdomen.—Phil. Med. Journ., vol. i. p. 80, from Journ. de Med., 1780.

CASE XVII.—At seventh mouth, after being jammed by a carriago against a wall, had at once violent pain and flooding. She languished for about five mouths, and died.

Post-mortem.—Evidences of great inflammation in the nbdomen. Uterus natural, except a rent posteriorly which had not healed; fætus in the peritoneal eavity, putrid.—Ibid. from ibid.

Case XVIII.—A.t. 20—married a few months; tolerable health; habitual dysmenorrhæa. After an excursion at time of quickening, seized with vomiting and syncope, and died in less than one honr.

Post-mortem.—A rent five inches long in the anterior part of the nterns from the eervix; the fixtus without the uterns surrounded by ecagula; the nterns covered with dark-coloured spots, and easily torn, and both evaries diseased. Rupture

supposed to be owing to the movements of the fætus .- Mr. Else, Lond. Med. Gaz., vol. ii. p. 400.

CASE XIX .- Æt. 25-second pregnancy at fifth month; had some pain and uneasiness in the abdomen and vomited once, collapse ensued, and in a few hours

Post-moctem.-A large quantity of blood in the abdomen; a rent in the superior and posterior wall of the womh, one and a half inches long; the forms in the peritoneal cavity; the cervix healthy; the os closed; the body of the uterus "rather thinner and much softer than nateral."—Mc. Num, Lond. Mcd. Gaz., vol. xxi. p. 1030.

CASE XX.—Æt. 32—mother of eight; near full time had a fright, causing her to turn quickly, when she was seized with sudden pain in the back, extending to the abdomen, with faintness and palpitation. Eight days after, the same symptoms were renewed, and she died three-fourths of an hoer after the birth of a full-

Post-morten.-A large ameent of blood in the peritoneal eavity; the uterns not contracted; hydatids in the right ovary; two long and one short rent through the peritoneal coats of the interes .- Mr. White, Dub. Med. Journ., vol. v. p. 324.

Case XXI - At. 24-at fifth month, second pregnancy, slight homorrhage came on with pains; these recurring often, she was much reduced, and the back and feet could be felt through the abdominal walls. After a few weeks, violent

pains came on; os scarco dilated; ergot given; cank oxhansted.

Post-moctem.—Fortus escaped through a longitudinal reat in the right side of the uterus, and near the cervix a second rent not through the peritoneum; the head and placenta remaining in the uterus. A great quantity of fluid, blood, coagula, &e., in the cavity. The structure of the wemb rather softened; the feetus apparently of six and a half months.—Brit. and For. Med. Rev., vol. vi. p. 539, from Gaz. Méd., 1837.

CASE XXII.—Æt. 26—had one child, and three miscarriages. At two and a hall menths, while waltzing, after taking a dinner, and cold bath, she felt all at oneo a cracking in the abdomen, and became faint almost immediately. Most alarming symptoms rapidly succeeded; abdomen became swellen and painful, and perfect collapso ensued-no hemorrhage-neck of the merns natural. It was believed to be rupture of the liver; two colleagues afterwards called it acute peritonitis—was leeched; died about thirty hours after rupture.

Post-moctem .- A great quantity of blood in the peritoneal eavity; at the fundus was a considerable rent of a circular form, two inches in diameter; the uterino tissuo healthy, except about the rent, where it was evidently softened, and the torn serface rough and unequal-the ovum in the peritoneal cavity.-MM. Moulin

et Guibert, Arch. Gén., 1825, p. 382.

Case XXIII.—Æt. 25—robust—at commencement of the seventh month aborted, in consequence of a ruptere of the womb and the posterior wall of the bladder, into which the fectus escaped; some bones passed away, and at the end of two months, she died of gangrene.

Post-mortem .- The eterus and bladder united by false membranes .- Arch. Gen., 1828, p. 109, from Memor. d. Math. e Phis. d. Ac. d. Sc. d. Lisboa, vol. ii. Dr. G. de

Lousa Ferras.

CASE XXIV .- Æt. 27-fourth pregnancy; after much fatigne, had pain in her left side, followed by nansea, lasting some days, and febrile symptoms. In a little over three months seized by an unsupportable pain in the side-a temour felt in the belly-general agitation followed by syncope and collapse-death.

Post-mortem .- Much blood in the peritoneal cavity, and a feetus of about the fourth month. Uterus somewhat flattened, and an irregular rent, still bleeding, nearer the longitudinal axis than the Fallopian tube and evary, which could not be found. Death from hemorrhage.—Plul. Med. and Phys. Journ., vol. vii. p. 419, from Mem. dell' I. R. Institut. del Regn. Lombard.

CASE XXV.-Mother of several. At fifth moath, after a long walk, felt a sudden and severe pain, "as if something had given way within her;" tearing sensation continued; supposed to be colic. Died after several hours.

Post-mortem.—At least four quarts of blood in the peritoneal cavity, and the fœtus and unbroken secundines. A transverso rent from one Fallopian tebe to the other; the os impervious. "There was no extenuation at any point of the nterus, nor any appearance of disease."—Dr. Harrison, Am. Journ. Med. Sc., vol. xy. p. 371.

Case XXVI.—Æt. 28—good health; first pregnaney: at sixth month, white reaching over a floer barrol, felt something give way, and had pain in the abdomen, where she rested against the barrel, which continued. Ten heers after this she had labour pains; the os partly dilated, and in four hours delivery took place; placenta separated by the hand with difficulty; child alive. Died ninety-eight hours after delivery.

Post-mortem.—Firtid gas escaped from the abdomen; uterns torn at the left extremity of the fundus, above and very near the Fallopian tebe; the rent of the peritonoum not over three-fourths of an inch, that of the uterine substance greater. The lining of the uterus elsewhere looked well. Ibid., 1845, p. 177, from Trans.

Coll. Phys. of Philad., 1844. Dr. Bond.

CASE XXVII.—Ilad flooded in a former pregnancy. Had been tolerably well, when at the seventh month, she had a violent pain in the right side, different from what she had before felt; the pains and hemorrhage had been inconsiderable. Died in four hours.

Post-mortem —The factus enclosed in its membranes escaped into the abdomen.

Ramsbotham's Pract. Observs. Case 84.

Case XXVIII.—First pregnancy; fourth month, seddenly seized with sickness and vomiting, supposed to be owing to having eaten mackerel. Five hours afterwards her pulse was scarcely felt; her conntenance pullid and distressed; hands claminy and cold; pain in the belly; no external flooding, but exhibited symptoms of loss of blood or of lead poisoning." Died six hours after ruptere.

Post-mortem.—Uterus rent in the left side; ovnin escaped entire; several pounds

of eoagula in the abdomen .- Ib. Case 85.

CASE XXIX.—A.t. 36—tenth labour; at about the fifth month, os beginning to dilate; pains feeblo; ergot given with no effect. After twelve hours, the pulso became weak, and she was faint. Immediately delivered by the erotchet of a putrid child. Sank on the seventh day.

Post-mortem.—Adhesions of intestines; ovaries soft, and mottled with black; peritoneum raised from the left side of the merns by coagula, forming a large black tumour; the ragged remains of the anterior part of the cervix seen, which was softened and lacerated; the body of the uteres had lost its elasticity.—Dr.

Marphy, Dab. Journ. Med., vol. xvii. p. 218.

Case XXX.—Æt. 33—fifth pregnancy; at fourth month, had rupture from a fit of passion, and subsequent violent exertion. Died fourteen hours after supposed rupture, of hemorrhage.—Lond. Lancet, 1828-29, vol. i. p. 33, from Gaz. de Santé, 1824.

CASE XXXI.—Mother of six. At beginning of the eighth month, seized with abdominal pains and bilions vomiting; in ten hours watery discharge, with coagula, from the vagina, and eight hours after, was delivered of twins, by natural

efforts. Died about ten hours, from supposed rupture.

Post-mortem.—Somo eechymosis of anterior part, and several transverse rents more or less convex toward the fendus, through the peritoneal coat only, from one and a half to two inches long, as if made by a pen-knife, and one three inches long, and two inches broad.—Mr. Partridge, in Med. Chir. Trans., vol. ix. p. 72, from Churchill's Dis. Fem.

Case XXXII.—Æt. 36—tenth pregnancy; fifth month; pains feeble from the first; os the size of a shilling, relaxed; ergot did not increase their strength. Pulso being quick and feeble, os relaxed; head perforated; feetes putrid; inflammation set in; death on ninth day.

Post mortem.—Great peritonitis; sero-purulent floid in the abdomen; a rent in the cervix in front, confined to the muscular substanco.—Dr. Collins' Midwifery,

ր. 138.

CASE XXXIII.—General good health; former labours favourable: sixth child. At seven and a half months, while in the act of stooping, she exclaimed, "My

dear, something has given way in my stemach; did yon hear it break?" In one hour was in a state of collapse. Died immediately after the extraction of a dead

Post-mortem.—A rent from fundus to cervix, posteriorly. No disease apparent in its texture; ne cause for the rupture, unless a very slight attenuation of the portion lying in centact with several vertebree.-Merriman's Synopsis, Appendix,

CASE XXXIV .-- At fifth menth, a retroverted wemh filled the pelvic cavity; the fundus burst, and the fertus escaped through the anns. Died. Lond. Med. Repos., vel. xix. p. 207, from Phil. Trans, vol. vii. p. 432.

Case XXXV.—Æt. 44—mother of twelve; labours always difficult, and premature delivery four times for contracted pelvis. At sixth month, membranes artificially ruptured; thirty hours after, labour came on; arm presented; after delay, delivered by turning; condition good. Twenty-four hours ufter, had a livid, anxious countenance, great pain, voiniting, and almost imperceptible pulso. Died thirty-six hours after delivery.

Past-mortem .- Extensive rent of anterior wall through the eervix, and body and bladder. Substance of the womb thick and pulpy, "evidently the seat of chronic inflammation."—Mr. Favell, Prov. Med. Journ., 1845, p. 117.

CASE XXXVI.—Rupture caused by forcible attempts to dilate the os nteri in an arm presentation at the seventh month. Longitudinal rent of the neck; result not stated .- Diet. des Sc. Med., vol. xlix., from Baudelocque.

CASE XXXVII .- At. 17-between third and fourth month, suddenly seized

with colicky pains, and soon died.

Post mortem.—Abdominal eavity filled with blood, in which was the fætus. Rent in the right side, from fundus near to the neck. The walls of the right side extremely thin, seeming to be little else than peritoneum, and very friable; the left natural .- Buffalo Med. Journ., 1846, from Am. Journ. Med. Sci., Jan. 1847.

CASE XXXVIII.—Fell at the eighth month; first pregnancy; waters escaped; in thirty-six hours pains very strong; es dilated to the size of a shilling, and very rigid; breech presenting. During an examination, felt the cervix tear to the loft; rosult not stated .- Dr. Thompson, in Monthly Journ., 1847.

III .- Cases of Recovery from Rupture at the full term of Pregnancy.

CASE XXXIX.—A healthy negress, at. 18—first child; os undilated; head pressing violently on the perinamm. Uterus rent from the os, for six inches, ioward the fundus; child expelled at the same time. Recovered, and had another child.-Lond. Med. Gaz., vol. iii. p. 219.

Case XI. — Foctus expelled through the anus; patient recovered in seven days. — Lond. Med. Gaz., vol. i. p. 101, from Repert. Med. Chir. di Torini.

CASE XLI .- Æt. 32-mother of two or three; pelvis contracted; had journeyed two hundred mites on foot; presentation natural; labour rapid; head low; birth soon expected. "A gush took place;" the head suddenly retreated, and pains ceased entirely. Complained of a constant "tearing" pain; laboured breathing; dark-colonred vomiting. The os was undilated; a rent in the right side of the body, running from a point at the right side of the cervix toward the fundus; the fætus in the abdomen. The feet were seized, the head being assisted by the lever, after failure of application of forceps, about four hours after rupture. Over tive hours hard labour in getting the head through the pelvis. Was well in three weeks .- Mr. Macintyre, Lond. Med. Gaz., vol. vii. p. 9.

Case XLII .- Æt. 36-slight contraction of the superior strait; previous labours tedions, but safe. Strong labour: totaly dilated os; head pressing on the perimeum. During a strong pain, a sudden scream and an exclamation that something had burst. Head receded. Great anxiety; irregular pulse; hiccup; dark-coloured vomiting. Between one and two hours after the inpute, delivery by the feet; very easily accomplished, the uterns affording no resistance; the focus lay in the abdomen. Recovered.—Mr. Parkinson, Lond. Med. Cuz., vol. vii. p. 174.

Case XLIII .- At. 28-third labour; strong and healthy. Two months previous

had a fall, and afterward complained of pain in right iliae region. Very severe labour; breech presentation; rupture after the breech and half the trunk had passed the vulva. Delivered, after some delay, by traction on the trunk, with some difficulty; placenta artificially removed, part left behind; a good deal of hemorrhage; hernia of the intestines. Left her bed for the first time in about two months.—Mr. Currie, ibid., vol. xvii. p. 854.

Case XLIV.—Æt. 25—mother of two children; shoulder presentation; first seen after rupturo; version was impracticable; thorax perforated; delivered with little difficulty. Extensive rent behind at the junction of the cervix. Discharged cured in twenty-three days.—Dr. Collins, in Dub. Med. Trans., and in Treatise.

Case XLV.—Æ1. 30—sixth child; had been in labour seven hours; paias brisk; rupture occurred unexpectedly, when child was about being expelled. Perforator and crotchet at once employed; the interns strongly assisted the expulsion. Very extensive rent posteriorly, and hernia of the intestines. Discharged on thirty-second day, cured. Alterward had two children; with the first, premature labour induced.—*Ibid*.

CASE XLVI.—A rent in the eervix, vagina, and peringum, caused by dragging with forceps a horribly mutilated focus through a pelvis which was "ascertained to be too narrow to admit the transit of a living focus." She "escaped" with these lacerations.—Reported by Dr. Campbell, Lond. Lancet, 1828-29, vol. i. p. 34.

Case Xf.VII.—At. 36—mother of several; previous labours easy; pains moderate at first, and suddenly, after about five hours, bearing down almost entirely ceased. From one to two hours after rupture, the pulse was rapid and indistinct; countenance anxious; exeruciating pain in the abdomea, and a slight cozing of blood, per vaginam. Prompt delivery resolved on; head at the brian of the pelvis; after a fruitless trial of long fareeps for one half hear, they slipped. The perferator then used, and the fætus faund hydrocephalic; delivery at once finished; two pounds of coagula removed. A rent from the cervix, posteriorly up into the body of the wamb, as far as the finger could reach; great prestration followed, but she recovered.—Dr. Campbell, Edin. Med. and Surg. Journ., 1828, p. 328.

CASE XLVIII.—A stout young woman; runture in severe labour, which lasted thirty hours. Nearly four feet of intestines protruded through the rent, and slonghed off on the sixth day; faces voided per vaginam for two years, when they took the natural channel. Eighteen menths after this she conceived, and had a living child.—Lancet, 1828-29, vol. i. p. 35, from Dr. McKeever's work.

CASE XLIX. (a).—Operated on twice successfully by gastrotomy, after rupture and escape of the fectus. The second time the fectus lived half an hour after its extraction.—Ibid., from Pathol. Chirurg., vol. ii.

Case L.—Æt. 33—feeble; fourth pregnancy; fell two weeks before labour. A transverse rupture of the fundus took place; fectus escaped. Gastrotomy twelve hours after rupture; child dead. Liquor anutii and blood in the abdomen, the intestines inllamed. Cured in about one month.—Quart. Journ., 1819-20, p. 226, from M. Bernard, &c., in Journ. Compl. de Diet. des Sc. Med., 1819.

Case Ll.—At. 30—very weak; partial prolapsus. First stage natural, contractions very powerful; os dilated to half an inch, and the head in the pelvic eavity, when suddenly, during a pain, the lower part of the uterus prolapsed. A large, fleshy, cylindrical mass, six inches long, and two and a half in diameter, occupied the vagina. The head being engaged in the inferior strait, the os dilated to an inch, the forceps were applied, and the cylinder began to burst; forceps withdrawn; child expelled. The reat did not seem to pass through the interino walls; interus was returned into the pelvis. Recovered.—Lond. Lancet, 1828-29, vol. i. p. 647, from Siebold, Journ. für Geburtsk.

Case 141.—Æt. 20—in ninth month; suddenly fainted, and had intenso pain in the abdonacn, with very strong movements of the fœtus, for twenty-four hours. Pains in the hypogastric region continued intense for four weeks. Founs discharged piecemeal through the abdonen and the vagina; recovered after several nonths.—Lancet, 1841-42, vol. i. p. 97, from M. Richter, in Austrian Med. Weekty Writ.

CASE LIII .- Previous labours favourable but the last, all the children living.

Pains had ceased for some time; patient pallid, and looked very ill; no hemorrhage; head had somewhat receded; child could be felt in the abdomen; shock of the rupture less than usual; delivered by forceps without the least difficulty. A large rent in left side, with hernia of the bowels. Recevered.—Dr. Murphy, Dub. Med. Journ., vol. xv. p. 489.

Case LIV.—Was suddenly alarmed by report of a pistol, and felt an extraordinary sensation. A few hours alterwards, veided blood in her nrine. Twenty-eight hours after, profuso hemorrhage came en; the os heing midliated. About thirty-two hours after ripture a horizontal rent in the posterier parietes of the utems being ascertained, she was delivered by version. Recovered in a few weeks. Good constitution, and her mind was particularly tranquit. Dr. Ingleby, Lond. Lancet, 1839-40, vol. i. p. 635.

CASE LV.—Æt. 24—infirmary patient; low stature; deformity of extremities; about 12 hours after the beginning of labour rupture took place, the os being the size of a crown-piece, after violent pains, which were succeeded by excruciating pain in the belly. Figure escaped into the abdomen. About 15 hours after rupture, delivery by turning and perforation. Rent along the whole course of the right side, including the cervix. Well in about two months.—Mr. Powell, in Med. Chir. Trans., vol. xii. p. 528.

Case LVI—A. 29—delicate; mother of three; the last labour tedious; pelvis under average; pains strong and frequent; os dilated. Within twenty-four hours from the lirst of the labour, a most violent pain came on, succeeded at once by vomiting and exhaustion, and pains gradually ceased. About three hours after rupture, there being constant pain, extremo tenderness and prostration, the perforator was tried; the head retreated; version and perforation behind the ear; nates and trunk delivered not without considerable difficulty; hernia of the bowels. In seven weeks was about the house, and afterward menstruated regularly.—Mr. Birch, Med. Chir. Trans., vol. xiii. p. 361.

Case LVII.—Æt. 40—stout, healthy, well inado; mother of nine; the last labour protracted, with sloughing of the vagina and bladder; pains sharp, severe and quick; rupture about seven hours after labour began. The os was adherent to the vagina under the publis, and near the size of a crown-piece, and undilatable. Had a pain as if "a sword had been thrust through her;" profuse hemerrhage; pains ceased. Between one and two hours after rupture, the os was incised, and version performed, and perforation behind the ear. A rent of three inches across the posterior wall; the edges extremely thin; well in about one month.—Dr. Smith, ibid., p. 373.

Case LVIII.—ÆL 32—mother of six; always had difficult labour; pelvis narrow. At full time pains strung; waters discharged; labour progressed slowly. After a while the head was easily reached; pains gone; limbs of the fectus obscurely felt in the abdonnen; feetal heart inandible: face finshed; eyes bright; great thirst; vomiting and frequent cough; increased heat of skin; clammy sweat; pulse 95, hard and full. Atter eight hours more, symptoms the same; the pulse 100; the fectus easily felt threugh the abdonnial walls; the head risen above the brim and beyond reach. Gastrotomy; child dead. In six weeks perfectly cured.—Ranking's Abstract, vel. ii. No. 1, from La Nouv. Encyclo. Sci. Med., Jan. 1846, p. 70. Dr. Kulne de Thever.

Case LIX.—Æt. 24—fœtus required extraction by version. After removal of the placenta a rupture of the womb discovered, with hernia of the bowels; bowels returned, and kept up by a sponge. Recovery.—Ibid., from Caspar's Wöchenschr., 1845.

Case I.X.—Æt. 38; mother of six; suffered severe pain in the lower part of the abdomen for last six months. Labour favourable for twelve hours, then sudden prostration; head receded when forceps applied; delivered by crotchet; rent at anterior part of the cervix. Well in one month.—Dr. Mitchell, Dub. Med. Journ., vol. xxii. 1843, p. 339.

CASE LXI.—Gastrotomy three hours after rupture: menstruated in six months afterward.—Brit. and For. Rev., 1844, from Bulletin de l'Acad. Roy. de Méd., Sept. 1843.

CASE LXII.—Æt. 44—mother of five; ninth menth. Labour commenced; while standing up became faint, and vomited; had a sense of laceration, and a feeling as if there were two children in the abdomen; abdomen swelled; vomiting continued; breathing irregular; os undilated. Two hours after rupture, gastrotomy performed; child extracted alive. Recovered in forty days.—Dr. Frank, Omodei Annali, Gennajo, 1825, in Amlerson's Quart. Journ., vol. ii. p. 661.

CASE LXIII.—A: 33—eleventhehild; has projection of the sacram; the anteroposterior diameter of the brim being from two and a half to three inches. Ergot was given as in former labours; pains became violent; inputire when in labour ten hours; hemorrhage; the pains at once ceased. Turning about nine hours after rupture; the head assisted by the crotchet; the child and placenta were in the abdomen; the fundus contracted, and the body flaceid. Rent on the right side extending over in front obliquely to the left, of about three inches. Recovered in four weeks.—Dr. Hendrie, Am. Journ. Med. Sci., vol. vi. p. 35.

Case LXIV.—Fourth pregnancy; at full term; after thirty hours of frequent and strong pains, sho experienced an extraordinary sensation, and delivery did not take place, although the pains continued. Two menths after this the fixtus escaped through several ulcerations in the walls of the abdomen, and after some months was well.—Dict. des Sci. Aléd., vol. xlix. p. 240, from Hist. de la Soc. Roy. de Méd. Journ., i. p. 308.

Case LXV.—Rupture; delivery by version; recovery, and subsequently became pregnant.—Ibid., p. 245, from Dr. Douglas.

Case LXVI.—Rupture; delivery by version; rent felt by the hand employed. Recovered.—Ibid., from Guz. de Mèd. for 1778.

Case LXVII.—Rupturo eaused by a violent blow over the uterns; the child tay in the left side of the abdomen, and was "extracted." Recovered, and had another child.—Ibid., p. 245, from Commentaries of Lapsic.

Cases LXVIII., LXIX.—At the commencement of labour rupture took place; everything announced the escape of the factus into the peritoneal cavity. She had suffered a very severe pain, and felt something tear; the factus mounted high in the belly and moved actively. After a while the motions ceased, and soon a sensation of all pains; prominence of the belly very manifest. The womb was separated in great part from the vagina, and hernia of the bowels; no hemorrhage or other unfavourable symptom; child and placenta extracted with facility. The abdomen swelled on the second or third day; some vomiting; lochia scanty. Recovered. Two years afterward rupture occurred again; the head had not escaped from the pelvis; delivered by foreeps. Recovered—both children dead.—Ibid., from Dancar's Amals, 1798.

CASE LXX.—A woman of Tonlonse had rupture during the pains of a very tedious labour. Forms passed into the abdomen, and remained for twenty-five years. After her death the forms found invested in false membranes, and the rent by which it had escaped was distinctly visible.—Ibid., p. 247, from Bayle.

Case LXXI (a).—Womb ruptured towards the end of labour, and the feetns passed into the abdomen. The bones passed away per anum. Recovered.—Ibid., from Mem. Acad. Sci., 1720.

CASE LXXII.—About twenty-two years after its supposed escape into the abdomen, the feetus escaped per anum.—Ibid., from Percival.

Case LXXIII.—Rupture and escape of the fætus into the abdomen. Became pregnant a second time, extra nterine, at the end of seven years, during which time the fætus was in the abdomen. At the end of twenty-one years she began to void the bones of both per vaginam; the discharge continued during eighteen years.—Ibid, from Umlerwood.

Cases LXXIV., LXXV., LXXVI., LXXVII.—Bartholen cites two cases in which the fictus escaped by ulcerations in the abdomen, and two by the intestines, of which three recovered.—*Ibid*.

CASE LXXVIII.—There's Allard had impine, October, 1776, and four months after, the child was removed by a great incision, she being in great danger from the effects of putrefaction.—Ibid.

CASE LXXIX.-Perceiving a faintness succeed a violent movement, when a long time in labour, the surgeon, on examining, could no longer feel the fœus. Gastrotomy; mother and child saved .- Ibid., p. 249, from Mem. de la Soc. Roy. de

CASE LXXX.-Wife of a carman; child escaped into the peritoneal cavity; preparations made for gastrotomy, but it was resolved first to attempt delivery by the natural passages. The flaceidity of the lips of the rent, and the favourable position of the feet, permitted delivery, which was accomplished with as great facility as usual .- Ibid., p. 253. MM. Gardien, Desseaux, &c.

CASE LXXXI.—Third labour; at full term. On the escape of the waters the os was scarcely opened; pains came on; head presented. In a few hours everything promised speedy delivery, when she complained of a singularly acute pain of but short continuance, in the superior and lateral part of the abdomen, after which the firtus and placenta escaped. Gastrotomy at once practised, and ovcupied only four minutes; the child was dead; considerable blood in the bas reutre; recovery favourable; cure complete on the thirtieth day.—Heister's Surg., tom. v., from M. Thibault, in Journ. de Méd., 1768.

Cases LXXXII., LXXXIII.-Wife of a vine-dresser; rupture and gastrotomy at the end of eighteen hours; child dead; a gangrenous abseess formed in the hypogastrie region; but she was at work in the field in six weeks. At the end of nine years again pregnant, and had rupture of the womb, the fætus escaping entirely into the abdomen. Gastrotomy again, only waiting for the administration of the sacrament, two hours or more. Infant gave signs of tife for half an hour after the operation. The woman subsequently had a child naturally.—Dict. des Sc. Méd, xlix. p. 255, from M. Lambron, Observ. Communiquee à l'Acad. de Chirurg.

CASE LXXXIV .- Mr. Dumay resorted to gastrotomy in a case of rupture, and on the thirtieth day the wound was the size of a two sous piece .- Ibid., from Baude-

locque, Rechevches sur l'Operation Césarienne, p. 38.

CASE LXXXV .- A poor woman fell from a cart, in consequence of which tho uterus was ruptured, and the child passed into the peritoneal cavity; bones of the pelvis so mashed as not to allow of delivery. Gastrotomy was performed. Recovered. Dewees' Essay, in Phil. Med. and Phys. Journ., vol. i. p. 77, from MS. Lectures of J. Hamilton.

CASE LXXXVI.-Ilad several children; full time; labour slow at first, but pains became more violent, and during one, felt something erack within her. Pains ecased; became faint; pulse intermittent. Apparently quite torn; she was delivered; the child small, very healthy and lively. One side of the uterus burst so wide as to admit the hand.—Ibid., from Burton's Syst. Midwif., p. 110.

Case LXXXVII.—Act. 21—at full term had very violent pains continuing three weeks. About six months after, she discharged from a small rent at the navel, near four gallons of water, with some "fleshy strings and small bones." The opening was dilated, and the bones of two feetuses extracted; menstruated two months after, and was pregnant five months after, and six times since.—Ib., p. 82, from Med. Comment., Amer. edit., vol. i. p. 103. Dr. Bell.

CASE LXXXVIII.—Exostosis of the pelvis; rupture; gastrotomy; mother and child saved.—M. Castelli, Archives Gén., vol. lxiii., 1845, from Repert. Acad. Roy. de Méd.

Case LXXXIX .- At. 38-mother of three; previous labours severe. Deformed pelvis from too great inclination of the superior strait. Pains came on upon the 27th, waters broke on the 28th, and os dilated on the 29th; no signs of danger; sudden indefinable sensation in the abdomen, with change of its form, and the ficial limbs could be felt. Expulsive pains ceased; collapse; some hemorrhage. Turning easily done, the head being assisted by the forceps; rent felt by the hand during version. Recovered in a month.—Gaz. Med., 1845, p. 311, M. Colson.

CASE XC .- At. 37-mother of seven; two labours tedious; the rest natural; sacrum prominent. Fivo months before fell back in a chair, but was well after it. Pains very frequent and strong, and after twelvo hours, membranes were artificially ruptured. In a very strong pain she had a peculiar feeling in the abdomen, and suddenly cried out that something had burst within her; collapse ensued. Turning immediately, the head being assisted by the lever. Rent transverse; an internal abscess barst per anum, and she recovered. Fifteen months alter, again confined.—Edin. Med. and Surg. Journ., July, 1833, p. 72. John Dunn.

Case XCI.—ÆI. 30—mother of six still-bern; each labour long and painful; children born alive; diameter of brim searce three inches. Great ædema of auterior lip of uterus; belly preminent; for eighteen hours the pains were of little strength; then excessive crannps came on, and venniting, the head being at the brin. Labour lasted thirty-five hours. Fearing rupture, the head was perfarated; delivery occupied two hours. A rent of two to three inches in the posterior part of the neck, apparently not involving the periteneum. Recevered.—Mr. Robertson, Ibid., for 1834, p. 51.

CASE XCII. — Æt. 35 — eighth pregnancy; previous labours hard; pelvis "under the standard dimensions." After six hours' labour, the pains having become very severe, rupture took place; there were hemorrhage, extreme tenderness, sense of sinking, and hurried breathing; forms and placenta escaped into the abdemen through a rent in the left side, somewhat behind. Delivered by version. Recovered, and became pregnant.—Ibid, from Mr. Stephens.

Case XCIII.—At. 28—brim not ever three inches in its short diameter; had been in labour farty honrs; pains incessant; great suffering; perferation; the base of the skull with some difficulty drawn into the pelvis; cervix ruptured posteriorly for two inches, both lengitudinally and transverse. Was well in eight weeks.— *Ibid.*, p. 55.

Case XCIV.—Act. 37—small; antere-pesterier diameter of brim two and three-fourths inches; first delivery was by perferation. After twelve hours of continued strong pains, the es dilating well, the pains ceased suddenly; had a sense of stabbing in the belly, which lest its form; the head retreated; no alarming symptoms at the time. Next day, the skin was celd; pulse fieble, 85 to 90; intestines felt at the brim; placenta and membranes and fectus in the peritoneal cavity. Twenty-three hears after rupture, gastrotemy performed; eccupical not over five minutes; expressed herself much relieved at once. A longitudinal rent of the left side. In one mouth menstruation was established.—Arch. Gen., vol. xxxviii. p. 506, from Allgem. Med. Zeitung, 1833. Dr. Molitor.

Case XCV.—Æt. 35—healthy; eleventh child. After several heurs, the os dilated; head pressing on the perinæum; had aeute pains; became restless and anxions; cold sweats; nansea; and victort liquid purging. After some time, the head found recoded; rupture not discovered till it was considered tee late for delivery. During a few weeks the fætus passed partly by the vagina, and partly removed by an incision in the abdomen. In about ten weeks perfectly well.—Lond. Med. Repos., vol. viii. p. 110. Mr. Brock.

Case XCVI.—Æt. 22—second child; full time; previous labours of great suffering, and instrumental. Pains powerful and frequent; ne dilatation; had been so for several hours. Suddenly the fætus was forced through the anus, and fell on the fleor. Rent through the pesterior part of the uterus into the rectum; the os a firm cardiaginous ring. Recovered.—Bid., vol. xix. p. 206. Mr. Gaitskill.

Case XCVII.—Æt. 33—pelvis roomy; after considerable bodily exertion, membranes suddenly burst, and two days after labour came on. After twelve heurs more, the head low in the pelvis, suddenly cried out something had burst, followed at once by hemorrhago and vomiting and excessive pain, with cessation of ntenine contractions; the head receded. Forceps applied after seven hours, and slipped, and the lemis escaped into the abdemen; version was effected with some delay; rallied immediately after delivery; rent transverse above the pubis. Recovered.—Hamilton's Select Cases, Edin., 1795, p. 138. (Since Hamilton, in his Pract. Observations, in 1836, remarks that he had met with but one instance of recovery, this case must be the one quoted by Dowees, in the essay sup. cit. from Hamilton's MS. lectures, where he says it was "a case in which almost every circumstance was unlavourable," for, on bringing the child through the lacerated parts, he felt it tear more; she had children afterwards.)

CASE XCVIII .- Æt. 36-primipara; pains very strong, and increasing for the

first seventeen hours; os partially dilated; head in the pelvis, but not progressing; seized with exerueiating pain, gave a loud shriek, and fell asleep. Awakened after a quarter of an hour, with brown vomiting, and was plainly sinking. At once delivered by forceps in a short time; child saved; well in three weeks.—Mr. Huden, Trans. Soc. Lond., for Med. and Chir. Improvement, vol. i. p. 184.

CASE XCIX.—Æt. 39—strong and healthy, but lately weakened by peripuenmonia; pelvis narrow; fifth labour; after the escape of the waters, was very restless and irritable, with great anxiety for a few hours. During the last pain felt screething slip out of its place. Vomiting ensued and quick pulse; duration of labour presumed less than six hours. In apparently less than three hours, the perforator was used; it slipped, and version reserted to, followed by perforation. Got well.—Lond. Med. and Phys. Journ., vol. xix.

CASE C.—Mother of seven; when one hour in labour sho gave a piereing cry; pain in the right side; face pallid and sunken; pulse depressed; head retreated; turning easy; hernia of the bowels. Cured in fifteen days.—Dubois, from Chailly, Amer. Trans., p. 267.

Case CI.—Arm presentation; rupturo; turning accomplished with great difficulty; hernia of the bowels; extensive rupture of the cervix. Recovered.— Burn's Midwifery, p. 480, from Trans. Phys. Dvb., vol. ii. p. 15.

Case CIL—Contracted polvis; rupture; child escaped; nterus contracted; turning; a large transverse rent opposite the bladder. Recovered in a few weeks.—Castle's Blandell, p. 704.

Case CIII.—Robust; became pregnant after a fracture of the pelvis, producing contraction; rupture; gastrotomy; only the musenlar substance was tern; the peritoneum divided by the scalpel. About work in two or three weeks.—Mr. Barlow, in ibid., p. 705.

Case CIV.—Primipara; delivered by craniotomy after a very lingering labour; placenta adherent, and on introducing the hand seven and a half hours after, it passed through a rent in the back of the vagina or cervix into the abdomen; placenta separated; a very fixtid discharge; eventually recovered.—Ramsbotham's Process of Parturition, note to p. 421.

Case CV.—Eight days after runture, the fictus was sought for in the abdomen, through a rent at a point between the neck and the body of the nterns; it was small, flabby, extensible, but complete; gas escaped with noise and at intervals; moderate fever lasted some days, but the peritonitis diminished; a mucons discharge, and pains about the kidneys continued. Entered the hospital July 6th, the tenth day of labour, and left cured on the 15th.—Mail. Lachapelle. See Mandes Acconch. clc., par J. Jucquemier, tom. ii. p. 299.

Case CVI.—AE. 36—in labour thirty-nino hours, with a very rigid os; pains intensely violent; felt something snap, and a noise heard by an attendant; pains suddenly ceased; collapse; delivered by the vectis. Among the coagula, the portion of the uterns containing the os, and an irregular part of the cervix surrounding it, were found. For three weeks a continuous cavity between the uterus and vagina. Recovered.—Med. Chir. Trans., vol. ii. Mr. Scott.

Case CVII.—Sixth child; labour of seven hours; ten hours after delivery, two-thirds of the labia of the os protruded from the vulva: this was separated by torsion, and the whole filled the eervix. Recovered.—Dr. Kennedy, Dub. Jonru., vol. xvi. p. 154.

Case CVIII.—Primipara; labour tedious from congested and undilated os; pelvis rather under-sized; posterior lip separated, and was removed. Recovery tedious.—Ibid.

CASE CIX.—Os undilatable, after many hours of labour, after a violent pain, the circle of the cervix was torn off, and the head expelled.—Mr. Carmichael, Ibid., p. 54.

CASE CX.—Antero-posterior diameter of the pelvis somewhat contracted. In two labours delivered by forceps; in the third she felt something give way, and version was resorted to: eventually the trunk was removed, and gastrotomy practised, in order to remove the child's head. A slight rent was found in the

uterns; this was enlarged, and the head delivered. Recovered. For further particulars see case CCLL.—Am. Journ. Med. Sci., Oct. 1843, p. 365, reported by Dr. Bowman.

Case CXI.—After two or three days of pain, the os nteri considerably dilated, and labour progressing, when two or three gallons of water escaped. After this site suffered extremely; belty swollen and painful; pulse quick and feeble, &c. After several hours ergot was given, with no effect. After some hours these symptoms were relieved, and the head could be felt in the abdomen. On the twelfth day offensive discharges from the vagina; formeen months afterward was feeble, in bad health, and discharged bones, &c., per raginam. At the end of about seventeen months a fistelons opening found in the abdomen; at the end of twenty-one months the bones of the eranium, &e., removed by an incision. At the end of two years was quite well.—Dr. Toy, ibid., vol. vi. p. 33.

CASE CXII.— Et. 37—good health and constitution; mother of seven; waters escaped for forty-eight hours; pains short and violent; after an attempt to return the hand, which descended by the head, the womb inputied; extreme prostration; head receded. Forceps tried and failed; then version; feet and breech in the belly; rent transverse to the right, four or live inches long. Recovered; and in five weeks was about the house.— Dr. Guernsey, N. Y. Annalist, Oct. 1846, p. 37.

CASE CXIII.—Æt. about 30—mother of several; dangerous hemorrhage; os the size of a crown-piece, and very thin. "When stretching the os, which left thin and rigid like a piece of parchment, the woman shrink from the side of the bed, which obliged me to dilute with more force than 1 intended," when the os was felt to tear at the side, and allow the hand to pass; delivered; child lived. Recovered.—Smellie's Works, vol iii. p. 139.

Case CXIV.—Distorted pelvis; second child; after the birth of the child, the vagina found torn from the right side of the os for two or three fingers' breadth, and the os a little torn. Recovered; delivered again, and a large gap or chasm then detected at the side of the os.—Ibid., p. 383.

CASE CXV.—After pains, which continued during three days, two loud cracks were heard, as if the rathers had broken, and the belly was rent from near the navel obliquely downward; child and placenta expelled through it; the intestines seen. Recovered.—A. Monroe, Sen., in New Edin. Essays, vol. ii. p. 338, in Dub. Med. Journ., vol. xxvi. p. 492.

Case CXVI.—A. 32—second child; never had any uterine disease; when in labour twenty-two hours, during a strong pain, felt something suddenly give way within her, seeming as if her towels had been torn. A calm succeeded; two hours after, pulse small and thready; respiration slow and regular; acme pain in the belly, and a senso of a rolling, emstring weight there; limbs of the lætus easily left, and grasped through the panietes; strength faiting, she was, after a little over two hours, delivered by forceps; child lived a few minutes. A rent in the fundus admitted the hand; hernia of the bowels; a knuckle of the gnt was reduced the second day. Recovered.—Dr. Robiquet, in Annales de la Soc. de Méd. de Gand, quoted from Journ. de Méd. et Chirurg., Joly 1846, in Am. Journ. Med. Sci., April, 1847.

CASE CXVII.—Four years after rupture a gangrenous abscess formed, which was opened, and a part of the forus withdrawn, part having been plready evacuated by the bowels.—Did. des Sci. Méd., vol. xlix., by Cornac of Vienna.

IV. Cases of Rupture at Full Term proving fatal.

CASE CXVIII.—Contracted pelvis; in three labours perforation required. At about the seventh and a half month, tifth pregnancy; delivery brought on by piereing the membranes; rupture; head escaped into the abdomen; 'furning and perforation behind the ear. Died.—Lond. Med. Gaz., vol. iii. p. 32. Mr. Dovbleday.

CASE, CXIX.—ÆI. 43—eleventh child; contracted pelvis; previous labours severe and dangerous. Pains unusually severe; in a terrible pain the oterns burst, and a sound was heard by the attendants. Died in two bours.

Post-mortem.-Rent from cervix to fundus.-Ibid., vol. v. p. 522. Mr. Speckman.

Case CXX.—Æt. 28—fifth child; mombranes ruptured; head presented; faint pain and cramp in the side. Died in less than one hour from the rupture, un-

Post-mortem .- Two quarts of bloody serum in the pelvis; head limity impacted; parietes of the uterus remarkably thin at the rupture.—Ibid., vol. viii. p. 304. D_{L} Smith.

CASE CXXI .- Æt. 40-eleventh child; for two weeks had severe pain in the lower part of the abdomen, with tendency to sickness; pains telerably strong; doration eight or nine hours; no physician called for an hour and a half after rupture. Died undelivered in less than two hours.

Post-mortem.—I'we rents; that portion of the uterns thinner than the rest, and ovidently in a morbid condition; patches of lymph between the peritonenm and musenlar fibres; fortus within the uterus.-Ibid., vol. xxii. p. 375. Mr. Reid.

CASE CXXII.—Æt. 32—stont and healthy, and had five children. Had a favournble labour; the head nearly resting on the perincum. On the discharge of the waters the pains ceased, and delivery was soon required; but no positive signs of rupture, or premonitory symptoms; forceps tried and failed; delivered in a few minutes by perforation, somewhat less than two hours after rupture. Died about two hours after rupture.

Post-mortew.—Two pounds of dark coagula in the abdomen; a longitudinal rent of four inches in the posterior part; coats of the uterns healthy, but destitute of blood.—Ibid., vol. xxvi. p. 317. Dr. John Jackson.

Case CXXIII .- At. 21-healthy looking; former labours easy; pelvis sufficiently roomy; os dilated; pains lively, not violent; face to the publis; waters escaped; head gradually advancing, and a prospect of a safe delivery; a sudden scream, and complaint of a peculiar exerneiating pain; pains soon ceased; rapturo evident; duration of labour about ten hours; perforation at ence; delivered with little difficulty. Diod eleven days from rupture.

Post-mortem.—Rent two and a half inches in the anterier part; innor surface of the womb mottled by greenish patches; uterns thinned at the place of the rent. Presumed cause of rupture, partial atrophy of the uterns.—Dub. Med. Journ., vol.

vii. p. 209. Dr. Marphy.

Case CXXIV.—Alt. 36—delicato; eleventh labour; seven premature, three alive: pelvis undersized, but not irregular; no unusual sharpness of the brim. Labour at first natural; three hours and more before rupture, the pains became weak; an hear and a half after the escape of the waters, a sudden lancinating pain, "as if a sword had passed through her groin." Rupture soon evident; head between the ischia; duration of labour about nine hours. Forceps tried and failed; perforator; child slowly removed; the uterus assisting the breech and lower extremities. Died on the eighth day.

Post-mortem.—A transverse rent of three inches in the anterior part of the womh; "no morbid lesion to explain the accident." Death caused by the hemorrhage.

—*llid.*, p. 211.

CASE CXXV.-Had one living and one still-horn child; sacrum prominent; antero-posterior diameter of the brim not over three and a half inches. Strong, steady pains after the escape of the waters; head fixed at the brim, and the interns felt hard as if spasmodically contracted; lett something give way, and pains became mere spasms; no discharge from the vagina. Delivered by crotchet, apparently soon, "with much difficulty," "the uterus affording no assistance." Did not reeover from the shock. Died thirty hours after delivery. Duration of labour

Post-mortem.—A circular opening in the cervix opposite the sacral promontory; and a patch reaching into the body of the womb, much thinned.—Ibid., p. 213.

CASE CXXVI.—Æt. 36—temh labour; five still-born; ischia closer than natural; antero-posterior of the brim four and a half inches. The os soft—head almost arrested between the ischia during four hours before symptoms of exhaustion required delivery-duration of the labour not over twelve hours. Crotchet-child large—the nterus assisting the body and legs—uterus well contracted. Sank and died in apparently less than thirty hours.

Post-mortem .- Some shreds of lymph partly adherent, and part swimming in bloody scrum about the cervix. A circular opening posteriorly, near the size of a half crown; cervix thin, not softened; body of the nterus had a soft doughy feel; no musual prominenco of the sacrum.—Ibid., p. 214.

CASE CXXVII.—Æt. 30—fifth child; faco presentation; natural labour and delivery; rupture unsuspected. Died of peritonitis on the sixth day.

Post-mortem.-Blood and serum in the abdomen; peritoneum of the uterus thickened; rent of three inches in the left side, exposing a cavity in the fibrous structure of the uterus communicating with the lining membrane, by three openings-coagula around and within it.-Ibid., p. 219.

CASE CXXVIII.— A. 26-sixth child; the first delivered by the crotchet; the third, forced delivery; the second, fourth and fifth, natural. Antero-posterior diameter of the brim three and a half inches. Labour strong; os nearly fully dilated; hend resting on the pubis; without any sudden exclamation or complaint, the pains went off; pulse became weak; countenance anxions; respiration laboured; dark-coloured venniting. Perforation at once; the uterus assisting the body and limbs. Died of peritonitis on the third day.

Post-mortem.-Intestines, and peritoneum of the ntorus, highly vaseular. Rent in the peritoneum of two and a half inches in the anterior part of the cervix, where was softening, and a cavity in the substance opening through the rent into the abdomen; at the rent the peritoneum raised, and lying loose between the womb and bladder; fundus soft and doughy; fibrous structure easily peeled off .-

Ibid., p. 220.

CASE CXXIX - AEt. 30-first child. Delivery required by her situation when

admitted. Died twenty-four hours after delivery.

Post-mortem .- Uterus rent at the anterior part of the cervix close to the vagina. in a portion which was of a dusky green, and softened—of which there was a broad patch embracing the entire thickness of the walls. Tho peritoneum was raised in one place by coagula beneath.-Ibid., p. 221.

CASE CXXX.—When in labour some hours, a powerful dose of ergot was given by a unidwife without regard to the os, which was extremely rigid. Uterine action was most violent; after some time prostration ensued, and sho very soon

Post-morlem.—A large transverso rent posteriorly, and at the neek; the foctus and a few ounces of blood in the abdomen.—Lond. Med. Gaz., vol. xxvii. p. 372.

Mr. Coword.

CASE CXXXI.—Æt. 40-not very strong; tenth pregnancy; repeated losses of blood from placenta pravia. When the child was half-delivered by version, the nterus ruptured. Duration of labour about twenty-four hours; died soon. No post-mortem, but the uterus was as thin as paper .- Lond. Lancet, 1827-8, vol. ii. ր. 110.

CASE CXXXII.-Delivered by natural efforts; child born alive. Patient died from flooding.

Post-mortem.-A longitudinal rent in the side. Dr. Blundell,-Lond. Laucet,

1828-9, vol. ii. p. 384.

CASES CXXXIII., CXXXIV., CXXXV.-Ono died thirty-six hours after rupture, with a laceration in the posterior part of a hand's breadth. The second died at the end of thirty-eight hours. The third died in less than twelve hours; the child escaped into the belly; rent in front.-Ibid.

CASE CXXXVI.-Pelvis greatly distorted; Doctor found she had bled profusely: was restless; had weak intermitting pulso; no vomiting; nterns extremely relaxed; the child in the abdomen. Turning; considerable difficulty in extricating the shoulders and head. Survived delivery but a few minutes.—Lond. Lancet, 1831-2, vol. i. p. 830. Mr. Wisbey.

CASE CXXXVII.—Exostasis of one of the pelvie bones; hydrocephalic firtus; labour had been suffered to continue for many hours. Rupture; died without any attempt to extract the fætus.

Post-mortem .- Several rents; an extensive one in the body, through which the

whole fetus, except the head, had escaped.—Dr. Campbell. Lond. Lancet, 1828-9, vol. i. p. 35.

Case CXXXVIII.—Third labour; narrow pelvis. Duration of labour thirty-three hours; lived nine hours after rupture; died undelivered.

Post-mortem.—Very extensive rent in the anterior part of the body of the womb, through which almost the whole of a pretty large male fætus had passed; the fundus well contracted; head impacted firmly.—Ibid., p. 35.

Case CXXXIX—Fifth pregnancy; full time; had dull and continued pain in the abdomen; waters escaped, and uterine action was very much abated. At the end of three hours, gave three ordinary doses of ergot; action increased in a small degree for one and a half hours, when the vectis was used, but failed; forms then considered hydrocophalic; head suddenly receded, and pains at once ceased; sinking came on; rupture had taken placo, and the fietus had escaped into the belly, and could be left there. Apparently soon, the uterns was funnd permanently contracted, admitting but two fingers; patient exhausted, and but lew hopes could be entertained of recovery. Gastrotomy—this occupied thirty seconds, without the loss of a teaspoonful of blood; patient expressed herself greatly relieved, and passed a good night. Died eight hours after delivery.

Post-mortem.—Uterus healthy, except near the laceration in the posterior wall, where it was completely altered and softened in its texture, owing to chronic inflammation; fotal head of monstrous size.—Mr. Lord, in Lord. Lancet, 1828-9,

vol. p. 310.

CASE CXL.—After violent pain in the bowels, uterine pains suddenly ceased, and the fætus was felt beneath the integuments. Rupture from natural ellort of the womb; pulse quickened; less anxiety of face than was to be expected. Turning, over six hours afterwards; fætus entirely in the abdomen. Died about eighteen hours after rupture.

Post mortem.—Intestines glued with lymph, and a layer formed for isolating the

fætus .- Mr. Spilsbury. Lond. Laucet, 1834-5, vol. i. p. 125.

CASE CXLI.—Strong and healthy; et. 32; tenth pregnancy; saernm very prominent. After being five hours in regular active labour, pains suddenly ceased for twelve hours. Midwife gave ergot, and in a few hours pains returned, and the woman suddenly exclaimed that something had burst; hernia of the bowels; fetus "too high up" to be delivered by the feet, and was brought down by the blunt hook; died in a few hours after delivery.

Post-mortem .- Uterus healthy; muscular fibre very firm; rent posterior from the

fundus to the os .- Lond. Lancet, 1836-7, vol. i. p. 824. Mr. Hooper.

CASE CXIAI —Æt. 30—robust; pelvis well formed; had one living child. Had been in labour four days without symptoms of rupture or peritonitis. After blood-letting, "we endeavoured to apply the forceps the whole afternoon, but without effect." Died undelivered about five days from the commencement of labor.—Mr. Blythman. Loud. Lancet, 1841–2, vol. i. p. 29.

Case CXLIII.—A. 36—robust and healthy; labours always severe and lingering, but not instrumental. After being several hours in favourable labour, pains increasing, and the head descending, during an ordinary pain, the countenance changed; felt a sense of suffocation; pulse quick and tremulous. After one hour the head had not receded, but the feems was felt through the parietes. On attempting to perforate, the head receded; version, over an hour after rupture; delivery "soon accomplished." Rent in anterior part. Died thirty-four hours after delivery.—Mr. Tovcy. Ibid., p. 321.

CASE CXLIV.—Mother of eleven; pains lasted for sixteen hours, when she was delivered by a midwife, by turning of a living child. During the operation she gave a loud scream, and fatal syncope came on at once after delivery. Died in two hours.

Post-mortem.—Rent in right side through muscular coal only.—Mr. Hancorn. Ibid., p. 796.

CASE CXLV.—Died undelivered, after a most protracted labour, the head floating at the brim like a cork in water.—*Br. Ingleby. Lond. Laucet*, 1839-10, vol. i. p. 631.

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CASE CXLVI.—Somewhat contracted brim. Died undelivered.—Ibid.

CASE CXLVII.—Transverse presentation; child escaped into the abdomen; delivery by version. Died.—Ibid.

Cases CXLVIII., CXLIX.—Transverse presentations. Died.—Ibid.

Case CL.—Slightly contracted brim; impaction; crotchet within an hoor; sloughing of the passages; died after some weeks—Ibid.

Case. CLL.—At. 36—sixth labour; once delivered by perforation; great projection of the sacrum; pubis narrow; crista sharp; antero-posterior diameter of the brim, three and one-sixteenth inch; the lateral diameter, three and one-half inch. Sixty hours after the escape of the waters, the pains having been apparently of ordinary severity; the head not descending; cranictomy was talked of; an hoor and a half after this, the pains entirely ceased; head retreated beyond reach, and the child was plainly felt in the abdomen. The uterus was well contracted; the ront was in the vagina; vomiting; pulse 130; severe suffering and tenderness; sho felt the child move in the bowels at the supposed time of repture. Four hours after rupture, exhaustion, death-like; "presently" she rallied, and gastrotomy was performed; not over half an onnee of blood lost from the integuments; but a quart or more escaped from the abdomen; was better than before the operation. Died after two days from exhaustion.

Post-mortem.—Spinal curvature. No peritonitis, except lymph in the line of incision; uterus perfectly healthy; vagina extensively torn anteriorly, and separated from the uterus by a rent of four and a half inches. Child very large.—Ibid.

p. 637.

CASE CLII.—Extensivo rent in the vagina; the hand easily passed into the peritoneal cavity; was supposed nearly recovered, when on the twenty-sixth day from delivory, sho suddenly died from hemorrhago.—Dr. Collins' Treatise, note to p. 127.

CASE CIMIL—AEt. 25—first labour; waters escaped in twolvo hours; pains brisk, but not violont. In ninetoen hours the pains ecased; face pale and ghastly; limbs cold; constant yellow-vomiting; head very low. Perforation at once; much exertion required to deliver the head and oven the shoulders. A most extensive rent posteriorly at the junction of the uterus and vagina; hernia of the intestines. Died after twenty-five days.

Post-morten.—Rent nearly healed, but two openings into a psoas abseess on

each side, of which she probably died.—Ibid., p. 129.

CASE CLIV .- Æt. 36-first pregnancy. Died on the fourteenth day.

Post-mortem.—Extensive peritonitis; rent at the posterior part of the vagina, at the junction of the uteres.—Ibid., p. 133.

CASE CLV.—Æt. 21—third child; head large and firmly ossified. Duration of labour, nino hours; pains not of unusual violence, suddenly ceased; pulse beenmo rapid and feeblo; countenance expressive of greatest distress; belly could not bear a touch; frequent vomiting; head low down; face to the pubis; delivery at once by crotchet; oxtensivo rent of the vagina anteriorly. Died on the eleventh day.

Post-morlem.—Extensive adhesions; parts near the uterus and the inner surface of the bladder, of a dirty green (from blood). A transverse fissure in the cervix anteriorly of two and a half to three inches, filled up by partially organized lymph; no gangreno; a large quantity of clots, with some fluid blood in abdomen.—Ibid.

p. 133.

Case CLVI.—Alt. 36—eleventh child; seven prematuro; after nino hours natural labour, had a sudden acute pain in the left iliae region, when the pain ceased; pulse began to sink; belly very tender; frequent vointing; distressed countenance; head on the perimenm. Foreceps at once; head could not be moved; perforation, and considerable force required; the uterus acted a little at the last. A most extensive rent at the junction of the vagina and womb; placenta among the bowels; a largo quantity of fluid and clotted blood removed. Died on the tenth day.

Post-mortem -A large amount of coagula; immediate cause of death was he-

morrhage; slight peritonitis .- Ibid., p. 129.

Case CLVII.—Æt. 16—first child; labour of four hours; natural delivery. Died on third day.

Post-mortem.—Extensive rent in front, through the museular substance; sinuses under the peritoneum all around the eervix, and ulcerations of the vagina from syphilis.—Ibid., p. 142.

CASE CLVIII .- At. 32-fifth pregnancy; labour of forty-eight hours, not very severe; natural delivery; death on the fifth day from violent hemorrhago.

Post-mortem.—Loss of muscular substance of the size of a shilling, opposite the sacral promontory; the peritoneum being entire.—Ibid., p. 143.

CASE CLIX .-- Æt. 27--sixth labour; labour of one hour; natural delivery; exhaustion came on from hemorrhage. Died on the fourth day.

Post-mortem.—Ront at the junction of the uterus and vagina; muscular substance of uterus much thinned.—Ibid., p. 144.

CASE CLX .- Æt. 25-in labour two and a half days; pains brisk; head low; puernoral convulsions; perforation. Died seven hours after delivery.

Post-mortem.—Extensive ront in the museular substance of the womb, and softening from syphilis .- Ibid., p. 10 t.

CASE CLXL -- Æt. 28-first labour; hydroeephalic fætus. In labour over twenty-

four hours; convulsive, sudden exhaustion; perforation; died on lifth day.

Post-mortem.—A large rent in front and lateral part of the vagina, and passas abscess.—Ibid., p. 104.

CASE CLXII .- Æt. 26-second labour; firm bands obstructing the vagina; after three days' labour, convulsions set in; delivery natural.

Post-mortem.—Extensive peritonitis; rent in the vagina at its inneture with the nterns, opposite the sacral promontory, admitting two fingers; extensive ellusion into the peritoneal eavity.—Ibid., p. 106.

CASE CLXIII .-- Æt. 35-third labour; pains very strong, but no sign of danger; perforation two hours after pains ceased, and exhaustion appeared. Died on third day. Extonsive rout in front at the junction of the vagina and cervix.-Ibid., p. 144.

Case CLXIV .- Æt. 32-fourth pregnancy; died on second day .- Ibid., p. 144.

CASE CLXV .- Æt. 30-second labour; narrow outlet; labour of six hours; pains suddenly eeased; eramps; extreme tenderness; vomiting; and debility; perforation three hours afterwards; shoulders delivered with considerable difficulty. Rent in front, and to the left, between the vagina and cervix; died on the second day.—Ibid., p. 141.

Case CLXVI.—Æt. 28—second child; first delivery forced; outlet narrow; labour of twelve hours; pains moderato; membranes broku; rupture soon ovident; head low down; perforation extensive; rent in front, at thu junction of the vagina and eervix, running into the uterns; died on second day.—Ibid., p. 145.

CASE CLXVII.—A.t. 30—sixth pregnancy; labour of forty-four hours; nains trifling; began to sink without any signs of rupture. Head, at the brim, out of reach of forceps: perforator used; delivery speedy. Hemorrhago reduced her much; died on the third day.

Post-morten.—A small rent of the vagina behind, near to the cervix, opposite the sacral promontory; severe peritonitis.—Ibid, p. 146.

CASE CLXVIII .- Æt. 34-sixth labour; duration of labour eight bours; breech presentation; child expelled loreibly; succeeded by alarming flooding; no sign of rupture, but extrome exhaustion; died in thirty hours.

Post-mortem.-Inner coat of vagina and os torn considerably behind, and one small rent in the peritoneal coat not corresponding to the other; peritonitis .- Ibid.,

CASE CLXIX.—Æt. 33-third labour; contracted pelvis; forco delivored before; labour of four hours; pains very teeble and ceased suddenly; sinking; version and perforation behind the ear; died in twenty-five hours.

Post-mortem.—Uterus almost torn from the vagina.—Ibid., p. 147.

CASE CLXX .- Æt. 28-second labour; vagina obstructed by a firm band; had been much injured by instruments in a previous labour; labour of nino hours; very strong pains; the band was divided toward the rectum by a bistoury; rupture in four hours after; perforation—Died in twenty-four hours. Extensive opening formed between the vagina and rectum, probably in an old eieatrix.—Ibid.,

CASE CLXXI .- Æt. 24-second labour; pains feeblo; head low; began to sink; labour lasted thirty-six hours; perforation at onco; died in seventeen hours.

Post-mortem - A rent of two inches in front, in the museular substance; a quan-

tity of bloody fluid in the belly; peritonitis. - Ibid., p. 148. CASE CLXXII - At. 30-second child; antoro-posterior diameter of the brim

scarce three and a half inches; force delivered before; labour of thirty-six hours; pains feeble; but the child advanced; sudden alarming debility; perforation at onco; died in fourteen hours.

Post-mortem .- An opening admitting the finger at the junction of the cervix be-

hind, and a rent of the muscular substance in front.—Ibid., p. 148.

CASE CLXXIII.—Æt. 30-first child; severe labour; its duration unknown; head low; perforation; died in fourteen hours.

Post-mortem.—Extensivo poritonitis; rent in the muscular substance near the

vagina; blood beneath the peritoneum.- Ibid., p. 49.

CASE CLXXIV.—At. 30—eleventh labour; pelvis roomy; labour brisk for five hours; pains suddenly ceased; this followed by other signs of rupture; head low; forceps tried; the head receded; version; some exertion required to remove the head; died in ten hours.—Ibid., p. 149.

CASE CLXXV. - Æt. 26-first labour; extreme deformity of the pelvis; anteroposterior diameter two and a hulf inches; labour of thirty hours; elbow presentation; wedged into the pelvis; version inadmissible; pains brisk; thorax perforated; "breech brought down with immense difficulty, requiring most laborious exertion for two and a half hours;" died in four hours.

Post-mortem.—A considerable rent at the junction of the cervix and vagina.—

CASE CLXXVI.-At. 35-first labour; child and secundines in the abdomen; twelve hunrs after rupture, version; died in sixteen hours from rupture.-Ibid.

CASE CLXXVII .- Att. 27-third labour; pelvis considerably under size; active labour of five hours; head low down; perforation; died in four hours; rent posteriorly, "at the usual place."-Ibid., p. 150.

Case CLXXVIII.— At. 26—fifth pregnancy; os partly diluted; most profuse hemorrhage, for which delivered by version; died in two hours.

Post-mortem.—A rent through the os, probably caused by version though by no means forced.--Ibid., p. 64.

CASE CLXXIX .- At. 30-fifth child; twenty-four hours in lubour; pains from slow became more foreible; had cramps for some time before in the right side; pains suddenly ceased; prostration; forceps failed; perforation; extensive rent in the muscular substance in front, at the junction of the eervix and vagina; died almost before delivery finished .- Ibid., p. 150.

Case CLXXX.—Att. 40-fourth pregnancy; delivered by version for profuso hemorrhago; a rent found at the cervix in front, and to the right; died soon .-

Ibid., p. 55.

Case CLXXXI.—Al. 36—ninth labour; shoulder presentation; had hemorrhage for five or six hours; version; much loss of blood; death soon; rupture of two inches in front through the museular part .- Ibid., p. 46.

Case CLXXXII .- Et. 37-sixth labour; pains at no time strong; head advancing sluwly; sudden cessation of pain; extreme debility, &c.; labour of forty hours; perforation at onco; died almost instantly.

Post-mortem.-A rent of the muscular substance in the "usual place;" cervix

not thicker than strong brown paper .- Ibid., p. 151.

CASE CLXXXIII .- Mother of three; injured in the abdomen by her husband, six weeks before labour, and not well since; pains severe; suddenly ecased; rupture suspected about twenty hours after, when the uterus was firmly contracted, and the fætus in the abdomen, out of reach; allowed to remain undelivered as affording the best chance; died thirty-six hours after rupture.

Post-mortem.—Uterus seemed perfectly healthy; rupture from cervix to fundus. —Dr. Blicke. Ryan's Journ., vol. ix. p. 123.

CASE CLXXXIV.—Æt. 35—had four living; rupture occurred while drawing at a well; os found dilated; feeble pains came on; head descended; delivered by the forceps of a very large malo child about six hours after the accident. Apparent transverse rupture of the muscular substance at the neek; died in twenty hours.—Dr. Adams. Lond. and Edin. Month., 1844.

CASE CLXXXV.—Æt. 30—had several children; had been in labour several days; os the sizo of a dollar; pains at first strong, growing weaker; died undelivered.

Post-mortem.—An immense flow of blood; rent from cervix to fundus posteriorly, where the tissuos were not thicker than pasteboard; at other parts three and a quarter or four inches thick.—Med. Chir. Rev., vol. xxv. Dr. Wombert.

Case CLXXXVI.—At. 38—mother of four dead children. In a previous labour the aterus was perceived to be thickened, and apparently diseased. Pains very strong; os fully dilated; natural presentation; promising ease; pains suddenly ceased, with a rumbling in the belly. Rupture after six hours' labour; fectus receded immediately after; the os tineae was firmly contracted, with a margin of placenta presenting. Died in forty-two hours after rupture, undelivered.

Post-mortem—Rent in right side, which was much thinned; the left thickened: the whole morus diseased.—Ryan's Journ., vol. ix. p. 288, frem N. Amer. Archives

of Med. and Surg. Sci. Dv. Duncan.

CASE CLXXXVII.—At. 25—stout; mother of three dead children; two footlings. Rupture five hours from the beginning of labour; os fully dilated; pains powerful, quick and expulsive; pains ceased; suffering in the right side; ventiling and depression; forceps tried and then the perforator. Died twenty-nine hours after rupture.

Post-mortem.—Uterus rather flubby, and universally of a pinkish red, not removed by sponging. A longitudinal rent to the right, bolind. At the seat of laceration

the tissues soft and easily tern .- Gny's Hosp. Reps., vol. vi. p. 72.

Case CLXXXVIII.—Strong; borno threo living children; labours lingering and very painful; linea ileo pectinea exceedingly sharp; pains extremely severo; rupture after labour of ten and a half hours. Complained of a sense of eracking and a cramp; pains suddenly ecased; great prostration; feetus passed into the abdomen; perforation at oneo; delivered after some difficulty, the uterus assisting; bones of the cranium highly ossified; died fifteen hours after rupture.—Ibid., p. 73.

CASE CLXXXIX.—Æt. 36—had six living children; labours difficult, the fifth instrumental; small pelvis; pains severe and constant; licad slightly descended. Twenty-four hours after the beginning of labour, was seized by an attendant and violently jolted up and down during a pain, to facilitate the labour; immediately afterwards pain declined; vormiting and depression. Perforation after six or eight hours; placenta in the abdomen, and its removal difficult. Died about forty hours after rupture. Womb rent through three-fourths of the posterior part and cervix.—Ibid., p. 78.

CASE CXC.—Æt. 25—had two still-born, labours instrumental; pelvis small. Pains strong; about twenty-seven hours from the first, had a sense of suffocation; pulse rose; pains gradually ecased; some hemorrhage; head did not recede; died about eight weeks.

Post-morten.—Rent in posterior part of the ecrvix and vagina not healed.—Mr.

Birch, Med.-Chir. Trans., vol. xiii. p. 358.

CASE CXCI.—Mother of eleven; had a blow on the belly; went her full time; labour tedions; restless for twenty-four hours. After rest, procured by opium, strong pains came; delivery soon expected; pains suddenly ceased, and she said the child had slipped into the belly. Died in a few minutes, undelivered.—Bard's Midwifery, from Med. and Phys. Journ., vol. xiii. p. 234.

CASE CXCII.—Second labour; first delivery by perforation; contracted pelvis; promature labour induced; pains activo; easo fuvourable; rupture sudden

perforation in about an hour after. Died in about two hours. Ront transverse, opposite the sacrum.—Ramsbotham's Pract. Observ., Case LXXVII.

CASE CXCIII.—Æt. 30—soventh labour; good pelvis; pains strong and short; os the size of a crown-pieco; pains abated, then ceased. Died in a few hours, undelivered.

Post-mortem.—Rent from eervix to fundus on the right side; child escaped excepting the head; feetus hydrocophalie.—Ibid., Case LXXVIII.

CASE CXCIV.—Stout; fourth labour; previous labours tedious; duration of labour about twelve hours; labour slow; pains suddenly ceased; prostration, &c. Veetis and the forceps had been tried; head impacted, and delivered with great difficulty in two to three hours after rupture. Died in about thirty-six hours.—

1bid., Case LXXIX.

CASE CXCV.—Ilad several living; labour of nine hours' duration, more or less; very favourable; os dilating; sudden spasm-like pain; verniting and depression; pains gradually eensed; head receded; beyond reach of the finger; turning easy. Died in about seventy-two hours—Ibid., Case LXXX.

CASE CXCVI.—Æt. 40—seventh child; all the formor still-born; deformed pelvis; head perforated when the os equalled a half-crown; one hour after this, rupture took place. Died soon.

ture took place. Died soon.

Post-mortem.—Transverse rent above the pubes, through the muccular coat and through the peritoneum at one point.—Ibid., Case LXXXI.

CASE CXCVII.—Second child; antero-posterior diameter of the brim two and a half inches; common labour; perforation about to be made when rupture suddenly took place; cramps in the belly; head receded; turning and perforation behind the ear at once. Died in about twenty-four hours.

Post-mortem.—A large rent opposito the sacral promoutory, which was a sharp ridge.—Ibid., Case LXXXII.

CASE CXCVIII.—Shoulder presentation; rupture had taken place before delivery by version. Died in a few hours.—*Ibid.*, Case LXXXIII.

CASE CXCIX.—Seventh labour; tedious; no alarming symptoms during labour, but gradually sank (undelivered?) in about twelve hours.

Post-mortem.—Rent of several inchos in the peritoneal coat of the back and side; the fleshy portion not implicated —Ibid., Case LXXXVI.

CASE CC.—Æt. 30—second child; deformed pelvis; labour going on well; head descending; suddon, severo pain in the belly; pains ceased; great prostration; perforation; delivered not without some difficulty; died about forty-eight hours after; duration of labour about forty-eight hours.

Post-moriem.—Ront in the posterior part of the vagina, not involving the cervix. Ibid., Case LXXXVII.

Case CCl.—At. 35—had several children; pains pretty frequent and severo; after an increase of thoso attended by sovere pain; head well descended; uterus ceased acting and collapse after about twelve hours labour. Died two hours after.

Post-mortem.—A large quantity of blood in the abdomen; rent at the junction of the body and eervix; around the rent it was thin, tender and very dark. Dr. Coffin, New. Eng. Journ., vol. iii. p. 114.

CASE CCIL.—Very large and plethoric; labour tedious, and suffering disproportionate to the uterine action; sudden rupture seven hours after escape of the waters; head receded. Died in two and a half days, undelivered.

waters; head receded. Died in two and a half days, undelivered.

Post-mortem.—Utorus very firm and two inches thick; a longitudinal rent admitting three fingers. Ibid., p. 115.

Case. CCIII.—At. 35—good health; borne several; at full time fell upon the ice and struck her abdomen, enusing her to feel that she was split open; repeated syncopes; incossant vomiting; cold surface; death-like aspect during twenty-four hours; os undilated; occasional pain and extreme tenderness of belly; seventy-two hours after ruptine, symptoms no botter; os still undilated; artificial dilatation commenced, a "process so obstinately resisted by the unyielding state of the parts as to require from four to five hours to effect a delivery of the child." Child large; profuse homorphage, from the uterus not contracting; firm adhesion in part, of the placenta to the uterus. Died on the sixth day from rupture.

Post-mortem .- Gangrenous patches on the walls of the abdomen; fetid gas eseaped; a full sized feetus among the bewels; rent in the superior part in front; very little bleed "in the cavities," but a quantity of sorous fluid.—Dr. Hyde. Bost. Med. and Surg. Journ., Jan. 1842, p. 377.

CASE CCIV.—At full term, considerable pain in the belly; after some convulsive movements, fætus assumed a transverse position in the lower part of the abdomen, and ceased to move. Some days afterward, new pains, and the placenta was extracted; afterward, occasional hemorrhages; the bleed becoming putrid; fever and alarming symptoms. Died forty-eight days after rupture.

Post-mortem .- Womb torn in front; focus among the intestines; uterns, &c., putrilaginous .- Diet. des Sci. Med., vol. xlix. p. 241, from " Mélanges de Chirurg., tom.

ii. p. 295. M. Saucerotte."

CASE CCV.—Sixth pregnancy; was awakened from sleep by a cramp in the abdomen; severe pains with vemiting; waters escaped; weinh acted violently; es dilating; arm presentation; apparently without warming the feetus escaped into the abdomen; delivered soon but no relief fellowed; symptoms of strangulated hernia succeeded; died in twenty-two or twenty-four hours from the first pains.

Post-moviem.—All the viscera gangrenous, and strangulation of the bewels in the rent; rent in the posterior and lateral superior part .- Ibid., p. 243, from Al. Percy in

Observs. Acad. de Chirurg. 1783.

CASE CCVI .- Æt. 36-fifth child; labours long and severe; the first followed by chronic cystitis, but for years sho had been free from discaso. Labour regular from the first and everything was well. After seventeen hours' labour, the waters escaped, after which she had four pains and they then ceased. Child could be felt in the abdomen; rupture suspected, but there were no symptoms, no pain or sinking or motion of the child. Ergot was given and in about five hours, pulse rather weak and sinking; an attempt was made with foreeps, then with the lever. The child suddenly escaped into the abdomen; profuse homorrhage and syncope when the hand was introduced. Died about twenty-one hours after rupture.

Post-morten. - Extensivo rent from the fundus to the bladder; parietes of the utorus thin as paper; and at the insertion of the Follopian tubes was transparent and frail as cobweb; bladder seirrhous and in parts two and a half inches thick. Pressure of this seirrhous mass probably eaused the thinning .- Phil. Med. and

Phys. Journ., vol. iii. p. 422.

CASE CCVII.—Æt. 34—delivered in the first by forceps; in the second by version: antero-posterior diameter of the brim not over three inches. Os dilated; waters escaped; pains strong; no descent; prolapsus funis. After five hours labour, version attempted; the head was arrested; foreeps applied; these failing, perferation; great difficulty experienced in turning and delivery. Metritis followed. Died on the twenty eighth day.

Post-mortem .- Rent of the whole of the right side of the neck .- Desormeaux. Ar-

chives Gén., vol. ii. 1823, p. 77.

CASE CCVIII - Æt. 30-first labour; good pelvis; very rigid os. On escape of the waters, after several hours of severe labour, bleoil escaped, and death followed

soon from hemorrhage.

Post-mortem .- A laugitudinal rent at the posterior and lateral part; the child in the abdomen, and much blood. Walls at the place of rupture evidently thinned; the neek remarkably thick and hard, almost scirrhous.-M. Guibert. Arch. Gen. vol. ix. 1825, p. 390.

Case CCIX.—Æt. 34—fifth pregnancy; had great miteversion of the womb, so that it hung ever the thighs. When in labour five hours, just as the finger reached the fundus of the vagina, eried out she was killed, and fainted at once; pains ceased; waters at the same time escaped with blood; child escaped into the peritoneal cavity; feet felt, seized and dragged through the rent; child bern asphyxiated, was recovered but died snon. Died.

Post-mortem.—The whole posterior part tern from the vagina: a semicircle of four or five inches, the edges of the rent rough.-M. Moulin. Arch. Gen., 1825,

p. 391.

CASE CCX .- Well formed; berne several. At the seventh month, after a walk,

had hemorrhage and was very weak and ailing for two months. At full time pains came on but soon weat off; os undilated. After several days a fortid dischargo with bones of part of the fætus escaped by the vagina; this continued and for soveral months she had a prospect of recovery. Motion of a carriage during a ride induced inflamination, which soon proved fatal.

Post-mortem.-A small rent of the cervix in front through which the debris of the fœtus had escaped; remainder of the fœtus in a membranous sac disconnected from

the abdomen.—Dr. Sims. Med. Facts, vol. viii. p. 150.

CASE CCXI.—Thirteenth labour; had an enormous tumour of the spleea extending near to the pubes. Suffered a good deal in pregnancy; especially in the latter days; pains very strong; three days after escape of the waters felt a eracking in the womb, and began to bleed; duration of labour five days; died unde-

Post-mortem.—Fundus completely tora through; the enormous spleen compressed

the womb.—Ibid., vol. xxxvii. p. 262, from "Il Filiatro Sebezio, 1825."

CASE CCXII.—Pains moderate and regular; after gradually declining for some time, ceased. Three and a half hours after this her lace was pale, rather anxious; pulse 160, small; belly very tender; head low under the pubis. Forceps applied but the head could not be moved, even with a third blade; the limbs at this time felt in the abdomen; turning now resorted to, and the mother died during delivery; rupture on the left side .- Dr. Griscom. New York Jonrn. Med. Le., 1844, vol. ii. p. 333.

CASE CCXIII.—Æt. 28—third child; os dilated; pains during two hours became intense; ao descent of the head. About nine hours from the first of labour, pains suddonly ceased and a colicky pain remained. Nothing but this to indicate rupturo, and nineteen hours afterward, ergot was given without effect; four hours afterward, dark vomiting and tenderness of the belly; turning about twenty-five hours from probable time of rupture; done with considerable difficulty; hemor-

rhago to about six ounces; hernia of the bowels; died three hours after delivery.

Post-morten.—A pint of bloody fluid; womb, contracted; a transverse rent in front half across the os and a short one of the os; two small exesteses of the pubes.

-Dr. Wagstaff. Ibid., p. 381.

Case CCXIV.—Tenth labour; previous labours easy. About seven and a half hours after the escape of the waters, she felt a slight aente paia in the belly and she said; "feel what a strange lump is in my side!"—the head had receded; turning soon after, with perforation behind the ear; child hydrocephalic; rent through the whole extent of the left side; died in twenty-three hours.—Dr. Fahnestock. Ibid., p. 383.

CASE CCXV .- Contracted brim from promineace of the sacrum. Labour remarkable for violent pains, the suffering having been excessive for six hours, the pains ceased; collapse ensued; membranes were broken, and os dilated; rupture twelve hours after commencement of labour; forceps applied but failed; perforation; died on the third day.

Post-mortem - Rent to the left and behind .- Mr. Roberton, in Edin. Med. and

Surg. Journ., July, 1834.

Case CCXVI—Æ1. 30—delicate; second labour; the first difficult; the anteroposterior diameter of the brim diminished by projection of the sacrum. After thirteen hours had a sharp pain in the lower part of the belly, followed by vomiting and syncope; head on the perincum; condition hopeless; considerable flooding; craniotomy.

Post-mortem —Rent in the vagina behind, into the body of the uterus.—Ibid.

CASE CCXVII.—Æt. 37-eleventh labour; brim narrow, from exostosis of the pubis; labour very long; prolapsus funis; os dilated; head filling the hollow of the pelvis. After twelve hours of labour, died suddenly without appreciable cause, undelivered.

Post-mortem.—In the left and front a rent of two inches in an eechymosed part; foot of the fætus, enveloped in the bag of membranes, thrust through it; several

pounds of blood lost.—Ibid.

CASE CCXVIII .- Æt. 28-sixth labour; four still-born; one a forceps case; brim

narrowed by prominence of the sacrum; labour but little painful; at the end of six hours, all at once a sharp pain came on; immediate homorrhage, and collanso directly followed. On attempting to perforate, the head retreated; version; head delivered with much difficulty; died on the second day.

Post-mortem .- Rent from cervix to fundus .- Ibid.

CASE CCXIX -- Æt. 44-fifth labour; four first very difficult, but not instrumental; sacrum prominent, and exostosis of pubis. Alter seventeen hours, labour pains became very violent; in two hours, excessively painful cramps in the belly, then vomiting and cessation of pains forthwith. Two hours afterward, version; the fætus almost entirely out of the womb; head extracted with much difficulty. Died on the third day.

Post-mortem. A transverse rent of the neck, involving the bladder .- Ibid.

CASE CCXX .-- Æ1. 29--narrow pelvis; rupture after a labour of ten hours; rent to the right in front. Delivered between two and three hours after runture. Termination unknown --- lbid.

Case CCXXI.—Æt. 26—stout and healthy; fourth labour; former labours severe and protracted; slightly contracted pelvis. Alter severe suffering for several hours, the head being unusually large, and considerably advanced in the pelvis, during a severe pain had a sense of something giving way; the head receded; hemorrhago followed; faint and restless; nausea, but no vomiting; pale, and hall distress in the belly. One hour afterward, no presentation to be felt; state alarming; pulso rapid and feeblo; great restlessness and anxiety. Gastrotomy, occupied but a few minutes; felt much relieved; suffered less than in farmer labours, and began to rally; the membraness bag was found unbroken; considerable blood among the intestines; female child of eleven pounds. Patient improved until the eighth day, when sho gradually sank.

Post-mortem .- A dark brown ragged opening, chielly in the posterior wall of the vagina, and extending through a small portion of the cervix; also a considerable transverse rent at junction of cervix and vagina: edges of the rent irregular, dark brown, but free from gangrene .-- Prov. Med. Journ., 1845, p. 549. William

CASE CCXXII .- Æt. 20 -- primipara; good health. After eight hours' lahour, os nearly dilated; waters escaped; doing well; her attendant gavo n dose of ergot; pains were increased; head receded; she was found exhausted, and a shoulder presonted; version. Diod in a few days.—Bid., 1842, p. 278, from Journ. Pract. Med. de Montpelier. M. Delmas.

CASE CCXXIII .- A negress, et. 35-inother of several; always suffered before and after labour. Suddenly seized with uterine pains, which went off suddenly, and were followed by familing, hemorrhage, and nansea; os admitted the little tinger; was bled, and ergot given; os dilated by force about fourteen hours after; turning. Died in about seventeen hours from runture.

Post-mortem.—Extensive rent posteriorly; nterus unusually sofi; traces of inflammation of mnous surface at different periods; peritoneum had "erysipelatous discolouration."—Ibid., 1814, p. 250. Dr. Arnold, of Jamaica.

CASE CCXXIV .-- Æt. 30-seventh labour; had griping pains in the abdomen for several days. Pains during the first eight hours, irregular and spasmodie; small doses of ergot given; os well dilated; ergot again. After eleven hours of labour, had violent cutting pain, most oxerneiating, with a lond report which awakened the doctor. Great bearing down pains for a few moments, followed by a cessation of pain for several hours. Delivered alter several hours, by repeated application of the forceps. Died in thirty hours.

Post-morten .- Rent posteriorly; with hernia of the bowels .- Dr. Gill, Ibid.,

1841, p. 208.

CASE CCXXV.—Æt. 38—very fat; had seven children, and two abortious; labours always severe and slow; abdomen pendulous; os ditated; pains powerful but "abdominal;" head low. About nine hours after rupture of the membranes, had a very severe pain, and the utorus ceased acting for three hours, whon symptoms of great prostration came on, and a rent could be felt. About three hours from rupture, version; the head assisted by the blunt hock; the child and secundines in the abdomen, with hernia of the bowels. Delivery effected with great difficulty. Died in about three and a half days.

Post-mortem.—Upper part of the vagino at the junction with the uterns, lacerated posteriorly for one-half its eireumference.—Mr. Elkington. 1b., 1814, p. 372.

CASE CCXXVI.—Second pregnancy; pains severe after rupture of the membranes. After twelve hours' labour, green vemiting came on, followed in a few hours by convulsions; forceps failed; version effected with difficulty. Death.

Post-mortem .- A rent of uterus and vagina admitting the fist; hernia of the bowels .- Lond. Med. Repos., vols. xii. and xiii. p. 159, from Bullet. Med., 1819.

CASE CCXXVII.—Æt. 26—fourth labour; antero-posterior diameter of the brim three inches; never required artificial aid. During forty eight hours bail slight grinding pains, which went off; during the next twelve hours pains strong and frequent; os dilated. In two to three hours more, bilions verniting; pulse quick; this was preceded by a sound of a snap, a remission of the pains, and an exclamation that all was over! Between four and five hours after this, version and perforation behind the ear; it was easily accomplished, the fætus being small. Died between five and six days from inputere.

Post-mortem .- A rent of four to five inches in the right side; hernia of the bowels: edges of the rent and inner surface gangrenous.-Mr. Holmstead. Ibid.,

vol. xxii. p. 209.

CASE CCXXVIII.—An unusually prominent sacrum; pains very slight, and subsided entirely after the escape of the waters; the os dilated; presentation natural. There had been no vomiting, scream, or other sign of rupture, and ten hours after the cessation of pain she was only a little restless, and respiration a little hurried.

Ergot given without any effect. Death.

Post-mortem.—A rent in front, in the direction of the linea ileo pectinea, which was not sharp, two thirds across the merus. It was of extraordinary thinness.— Ibid., vol. xxiii. p. 520, from Philada. Journ., No. 17. Dr. Broyles.

CASE CCXXIX.—Rupturo of the whole parenellyma without implicating the peritoneal covering, from manual violence. Hemorrhage came on in twenty minutes; died soon from Hooding .-- Davis' Obstet. Med., p. 751.

CASE CCXXX.-Subject to merine hydatids; waters escaped when the os was only equal to a half erown; pains gradually increased for soveral hours, and entirely ceased; no alarming symptoms. Six weeks after this, portions of the fixtus bogan to be discharged from an abscess near the navel, and from the vagina. Died after two months.

Post-mortem.—Small intestines communicated with the nterns by four apertures.

Mr. Windsor, of Mandiester, in ibid., p. 756.

CASE CCXXXI.—Æt. 10-first child; rickety; pelvis very narrow; after severo pains for several days, membranes unbroken, felt something tear in her abdomen. Perforation; there was no great flooding; no vomiting, nor convulsions. Died in ten or twelve hours.

Post-mortem. - Rent at the fundus admitting the hand; hornia of the bowels .-Smellie's Cases, vol. iii. p. 385.

Case CCXXXII .- Arm presentation; midwife ondoavoured three times to turn, while the patient was struggling to prevent her, and during pains; after minterrupted pains of twenty-four hours, the hand protruded; very soon after sho became suddenly easy; ecused to cry and almost at once vomited; face cold; breathing nearly stopped. Turning; died in three hours. A circular rent of the size of a sixpence in the corvix between the fostal shoulder and the pubis .- Ashwell's Parturition, p. 316.

CASE CCXXXIII.-Pains feeblo and at long intervals for a few hours; alarming symptoms followed upon slight hemorrhago, and the pains ceased; respiration laboured. Died

Past-morten. Rent postorior; uterus sloughy, thin, and livid near it.—Gooth's Midwifery, p. 251.

CASE CCXXXIV .- Funrth labour; pelvis narrow; corpulent. Pains very strong, with a tearing sensation in the back in the intervals of pain; head at the brint, but did not advance; much coffee coloured water escaped on rupture of the membranes; when in labour over eight hours, the head receded, and a "ripping" sensation in the abdomen; version; fectus after a while delivered as far as the hips and allowed to remain. Rent posterior, half way up to the fundas.—Ediu. Pract.

Med., vol. v. p. 490.

CASE CCXXXV.—Second child; the first a forceps easo. Pains for thirty hours, of unusual severity; os completely dilated; pains suddenly ceased; slight hemorrhage; immediate vomiting of dark green; exeessive prostration; difficult breathing; extreme anxiety; pulso extremely rapid and feeblo. In fifteen hours no part of the feetus could be felt per vaginam; form of abdomen changed, and extremely tender; child's limbs distinctly felt; a coil of intestines in the womb, and n large rent in the left side; was in a hetter state than at the time of the accident; no pain except on pressure; fissure in the womb, so contracted as not to admit the finger. Gastrotomy ninéteen hours after raptare; a largo quantity of bloody fluid in the abdomen, and the placenta; intestines much inflamed; child large; not half an ounce of blood lost in the operation, and was comfortable after it. Died sixteen hours after the operation, and thirty-five after the rupture. - Dr. Delufield. N. York Med. Journ., vol. vii. p. 351,

CASE CCXXXVI.—Frightened the first day of labour; eight days after it began sho had no pains, and was extremely low; chin presentation; version; dead child; hernia of the bowels. Died six hours after delivery.—Smellie's Cases, vol. iii. p. 386.

CASE CCXXXVII.—After eleven or twelve hours of very long and sovero pains, had a terrible movement of the foctus and fainted. Pains ceased; the belly was hard, tender, and painful; incessant vomiting, &c.; head at the brim; version after twelve hours, with little difficulty; the child's limbs among the intestines. Rent in the fundus. Died in three days.—La Motte (1726), p. 463.

CASE CCXXXVIII.—Tenth pregnancy; strong and hearty; pains lively and frequent; waters escaped; arm presentation. Pains severe for only one and a half or two hours, then gradually became feeblo until six hours from the first of lubour. child in the abdomianl cavity; version, without difficulty. Died in lour days.

Post-morten.—The rent admitted the tip of the little finger.—Ibid , p. 464. CASE CCXXXIX.-Primipara; after three days of labour, patient and midwife both heard something barst within her; her abdomen was of an altered form; the head impacted. Died while the doctor was gone for his instruments.

Post-mortem .- Utorus tympanitie and emphysomatons on the left side where the peritoneum was separated. Substaneo of the womb one eighth of an inch thick and tore like writing paper; rent posterior, from the os towards the left.—Med. Rev. and Mag., vol. i., "from Duncan's Annals, 1798."

CASE CCXL—Ninth child; twins twice; all natural. Pains had been very strong and ceased; had anxiety, pain in the belly, &c. Delivered; mode not stated. Died three minutes after delivery; hemia of the bowels; rent unterior from the os upwards.—1bid.

Case CCXLI - Æt. 38-first labor; progress tedious; head impacted; delivery

natural. Died on third day.

Post-mortem .- Rent of two and a half inches in the right side from the fundus to the cervix; no mark of gangrene.—Ibid, vol iii., from Med. Facts and Observs., vol. viii.

CASE CCXLII.—Æt. 36-fourth labour; arm presentation; after "utmost efforts at delivery," died undelivered. Duration thirteen hours.

Post-mortem.—Rent in the left side; extremity of rent black, thin and putrid; the inferior part preternaturally thickened to equal three fingers; remainder healthy .- Heister's Observs., No. 516.

CASE CCXLIII.—Had borne several; labour not far advanced; vomiting came on; became pulseless; clammy perspiration; cold extremities: child felt through the parietes of the abdomen. Died in about three hours undelivered .-- Dr. Bedford's Notes to his Translat. of Chailly, p. 268.

CASE CCXLIV.—Had borno several; head descending; somewhere about three hours from the beginning of labour, a snap was heard; immediate vomiting and collapse; vory soon delivered by forceps. Died in about ten hours.—Ibid.

CASE CCXLV .- Was in labour eighteen hours; ergot had been given, and version attompted afterwards. Died undelivored, in about two hours after the presumed rupturo.

Post-mortem.-A ront of six inches in the left lateral wall .- Ibid., p. 228.

CASE CCXLVI.-Delivery by natural offort; placenta retained by spasmodic eoatractica; died .- Burns's, op., p. 5, 475.

CASE CCXLVII .- Head resting on the perineum and head receded. Delivered; mode not stated. Died .- Ibid., from Douglas' Essay, p. 50.

CASE CCXLVIII.—Second child; the first a eraniotomy case; short diameter of the brim two and three-fourths inches. Artificial premature delivery at the eighth month; rupture three and a half hours after the membranes broke; turning very soon. Died on fourth day.

Post-mortem .- Linea ileo pectinea very sharp, and sharp juttiags from the pubis

into the eavity .-- Ramsbotham, Process of Parturit., p. 417.

CASE CCXLIX.—The head at the brim escaped into the abdomen, whilst the breech was forced into the pelvic eavity. Breech brought down and extracted with some difficulty. Rent at the eervix into the vagina.—Ibid., p. 419.

CASE CCL .- AEt. 28-well formed, but small; sixth child; pains mild at first, became sovere. About six hours from the first of labour she was pale; restless; averso to move; irritable and despending; pains trifling and unfrequent; she had flooded; the os a little dilated; membranes tense; presentation autural; membranes artificially ruptured; in a few pains the head descended into the pelvis. After a time orgot given; energetic pains induced; child's head born; and after a cessation of pains for fifteen minutes, the body and placenta expelled. Died in six hours.

Post-mortem .- Utorus firmly contracted; rupture posterior near the fundus; of the size of a crown-pieco; its margin irregular, surrounded by a reddened stain; near it three or four small cracks. The runture extended only two-thirds through the muscular substance; womb seemed sound elsowhere.-Mr. Chatte, Lond. Med.

Gaz., vol. x. p. 630.

CASE CCLL.-Mother of several; for two hours from rupture of the membranes, labour favourable, and a prospect of speedy delivery. On sitting up and making somo exertion, had a sudden pain and fainting, with agitation, and said "the child had gone back again;" head receded at once; anxiety; quick respiration; restlessness, thirst, vomiting; entire cessation of pains; slight hemorrhago; rupture evidently not suspected for twenty-one hours; then the limbs felt; the child being in the abdomen, and putrid; version difficult, but the uterus uncontracted; hernia of the bowels after delivery. Died immediately.

Post-morten.—Belly distended with gas; three pints of blood and water removed; a reat of the whole length of the worab posteriorly; this part had the livid appearance of gangreac; the rest natural.—Dr. James, in Am. Med. Repos.,

vol. vii. p. 328.

CASE CCLII. (CASE CXIII. continued.)—In her fourth labour Cassarena seetion, on account of supposed contraction of the pelvis. After this delivered of twins at full time alive, by another practitioner. In her sixth labour the uterus acted with great energy, and she exclaimed that something had given way; eoasiderable hemorrhage followed; voniting and syncope; head receiled; gastrotomy; child almost all in the cavity of the peritoneum; dead. Lived thirty-six hours.

Post-mortem.-Rupture at the place of previous lacisions.

CASE CCLIII .- At. 32-third labour; pains feeble and few at first; rupture of membranes accompanied by slight hemorrhage; regular pains ceased, and an irregular pain took their place. Ergot was given; the os dilated; the head presented; forceps could have been applied, but it being many hours after rupture before she was seen, it was considered too late. Died soon after admission.

Post-mortem .- Extensive reat in the right side through the muscular substance only, from the cervix to the round ligament .- M. Dubois, in Journ. de Méd. ct

Chirurg., July 1846, p. 293.

CASE CCLIV .- Æt. 28-small and always siekly; very bad health during pregnancy; mother of three. Fell with force, and at the time felt a sense of teariog and giviog way inside; slight vaginal hemorrhage; was restless; had an indescribable oppression in the abdomen for three days; but no pain; kept about the house. Strong pains camo on, followed after some hours by exhaustion; the fætus was in the peritoneal cavity; version. Death five hours after delivery.

Post-mortem.—All the abdominal viscera intensely inflamed, except the uterns; right side of the uterns "dark-looking, relaxed, thin as a sixpence in soroe places, and transparent." A fissure three and a half inches in extent, with ragged slonghy edges running perpendicularly to the cervix; the remainder of the womb healthy.—Mr. Spark, Lond. Med. Gaz., vol. iii. p. 218.

CASE CCLV.—Æt. 28—fifth labour; after a sudden movement of the forms had a pain and a sense of faintness; rallied; os somewhat dilated. Eleven hours afterwards fluid detected in the abdomen; delivered by artificial means, and died tweoty-two hours after the commencement of the symptoms.

Post-mortem.—Escape of a large quantity of blood; uterns large, soft and pulpy. Transverse rent at the fundus of the peritoneal coat, and not implicating the muscular coat; posteriorly a zigzag rent, involving the superficial fibres, and opening a large vein from which the hemorrhage had occurred.—Dr. Lever. Lond. Lancel, Feb. 1846, p. 588.

CASE CCLVI.—At. 47—borne no child for six years; rupture about twenty-five hours from the first of the labour; pains vigorous, and ceased gradually; no bad symptoms for five hours; one hour after runture died midelivered.

Post-morten.—The fixe he here is the peritoneal cavity, excepting the head, which was impacted; walls of the nterus "everywhere oily, and of a soft and doughy feel; rent in front to the left, where the walls were exceedingly thin and soltened, and of a deep red." Dr. Elliot. N. Y. Annalist, Oct. 1846, p. 7.

CASE CCLVII.—Æt. 40 to 45—mother of four; previous labours easy; duration of labour a little less than thirty-six hours; labour favourable; within a few hours after its commencement she complained of weakness, which continued with occasional rigors until death. These, the only symptoms that could be learned by inquiry. A few momeots before death a rigor, and a sudden noise in the abdomen, as if the escape of a body from a confined place. Died undelivered; rupturo probably took place at the time the weakness came on.

Post-mortem—Two hours after death; a large quantity of sero-sangnineous fluid of dark colour, and slightly offensive smelt; child enormous, completely in the abdomen with the placenta; uterus contracted, with a transverse rent, admitting the hand about the junction of the cervix and the body. "Nothing like thinning or disease of any kind in the uterine walls;" inputer owing to the great size of the head, which could not have passed the brim, and which was indented by the "immense force."—Dr Wragg. South. Med. Johrn., March 1847, p. 146.

CASE CCLVIII—ÆL. 23—first child; after a labour of over forty-eight hours; with extreme rigidity of the os uteri; the whole os burst off; delivered by perforation; the head being low down. Died after eleven days.—Dr. Lever. Guy's Hos. Reps., Oct. 1845.

Case CCLIX.—At. 20 to 30—had regular pains for two hours, when she had sudden pain in the abdomen and nansea; great irritability, faintness and restlessness followed. Died to fourteen hours undelivered.

ness followed. Died to fourteen hours undelivered.

Post-mortem.—Forty to fifty transverso lacerations on the posterior surface; none over one-twentieth of ao inch in depth; from one-fourth of ao inch to two inches in length, and occupied nearly the whole posterior surface.—"Dr. C. M. Clarke, from Trans. Improv. Med. and Surg. Knowledge in Dub. Med. Jour., vol. v. p. 324.

CASE CCLX.—Delivered in a former labour by forceps; presentation natural; no distortion of the pelvis; towards the end of the first stage of labour, the pain ceased; presentation receded: considerable hemorrhage followed; dark coloured vomiting took place. Died undelivered.

Post-mortem.—The whole conteots of the uterus were in the peritoneal sac, with very little blood. An immense rent of the lower part of the uterus and vagina en the left side. the edge of which was of a dark red colour, and as soft as jelly; softening had affected nearly the whole womb, but not from decomposition.—Dr. Robert Lec's Midwifery, p. 434.

CASE CCLXI.—Second child; membranes runtured early; pains became exceedingly violent; at the end of about fifty hours from the escape of the waters, the os being of the size of a shilling, during an examination, under a strong pain the os split on the right side a considerable distance up through the cervix. Died on the fourth day of uterine inflammation.—F. Ramsbotham, op. cit., p. 183.

CASE CCLXII.—Mother of nine; anasarea and ascites during pregnancy; tho os from the beginning was thick, soft, puffy, and ædematous; when a lattle above the size of a crown-piece, during an examination under a strong pain, the cervix was rent upward, posteriorly; child immense. Died on the fifth day.—Ibid. p. 184.

CASE CCLXIII.—Third labour; the first instrumental, the second difficult; in labour from Saturday until Monday-noon; head presentation; contraction of the superior strait; very little progress. In the absence of the physician, alcoholio drinks were freely given to increase the pains, in place of the opiates which were ordered. Had a suddon, severe pain in the side like a stitch; pains began to diminish, and soon ceased; and died in two hours.

Post-mortem.—Cervix neeri torn across half way round the organ; the head impacted; body, limbs and placenta in the peritoneal cavities.—Dr. Post. N. Y. Jour. Med., May 1847.

Case CCLXIV.—Sixth labour. During a "tremendous pain," sho felt something give way in the region of the uterus; the pain immediately eeased, and was renewed slightly two or three times. Frequent pulse; tender abdomen; anxious countenance; lips swellen and somewhat livid; and begged for delivery. Some hours after, the os was contracted as after labour; the vagina extensively rent at its junction with the cervix, and entirely detached to the left, and in front; fixtus and placenta in the peritoneal cavity. Delivered by version, which occupied thirty minutes; the hemorrhage had been slight; bere the operation well, and felt gratified. Died twenty-four hours after rupture.—Dr. Workman. West. Journ. of Med. and Surg.

CASE CCLXV.—At. 36—rolust; sixth labour; previous deliveries artificial; labours painless; polvis well formed, and of good dimensions; pains feeble and infrequent for the most part. After soveral hours, she had a sevene pain which she thought moved the child; neither child nor os could be felt; distress, vomiting, and faintness soon followed. These abated, and sho was bled for severe pain at the pit of the stomach; suffered greatly for two days, then became gradually more comfortable. On 16th day, had a profuse discharge of waters. By the 20th day, the abdominal integuments sloughed around the umbilicus; her size was less; discharges very offensive; she was sinking rapidly. An incision of eight inches was made, and the child withdrawn; the placenta separated and removed; the cavity was formed by the viscera glued together, and the peritoneum of the parietes, thus shutting off all connection with the rest of the abdomen; and contained putrid blood and water. Four days after this, injections thrown up the vagina passed out of the abdominal incision. Little fever fellowed; felt greatly relioved, and was about the house in five weeks; menses returned, and she became strong.—Dr. Snell. Journ. Maine Med. Soc., 1834, p. 1.

CASE CCLXVI.— Et. 44—several children, and generally easy labours. Had been in labour twenty-four hours; pains very strong; child low down, pressing on the perinaum; shoulder presentation; version without difficulty. On removing the placenta, a ront of about four inches was felt over the pubes; rigors and vomiting canno on. Died in about twenty-four hours after delivery.—Dr. Ayer. Ibid., p. 8.

CASE CCLXVII.—Æt. 3:1—mother of three or four. After about twenty-four hours, the pains at first light and trifling, and afterward abating; waters evacuated and fimis prolapsed; the vectis and crotchet were tried, and failed. She only complained of great sereness and distress about the umbilicus. After a few hours she sank and died, undelivered.

Post-mortem.—A knee of the child passed through a rent in the anterior part, four or five inches long; and running from the cervix toward the fundus; a large quantity of blood in the abdomen. Ibid., p. 9.

CASE CCLXVIII.—Æt. 42—mother of several. Physician had been with hor

twenty-four hours; m arm presented, and the chin and mouth were to be felt; an attempt to turn failed; great distress in the abdomen, a large turnour could be felt in the epigastrium; a foot could be felt, and its toes; vomiting now came on, which lasted for about fourteen hours, till she died undelivered.

Post-mortem.—Fœtus all in the abdomen; body of the uterus nearly separated from the eervix, and connected to the vagina only by a small portion; the uterus

was putrid.

Rupturo had taken place early or before labour, as there was nothing like labour

pain after the rupture of the mombranes.—Ibid., p. 10.

CASE CCLXIX. Died five months after rupture; part of the fætus having escaped by the amus; fætus putrid, and viscora disorganized; rent apparently very large; cicatrized, except for oight or ten lines. Ibid., from Recueil Périod. de la Soc. de Mèd. de Paris, tom. x. p. 268.

The following communication, with the interesting cases appended, is from Dr. Chmaning, Professor of Midwifery in the Medical School in Harvard University, whose extended experience in the practice of obstetricy has afforded him opportunities of seeing numerous examples of this accident.

Boston, Aug. 30, 1847.

DR. J. D. TRASK:-

Dear Sir:—Enclosed are rough, very rough notes of cases of ruptured womb, which have more or less directly come under my notice. You will not regard them as occurrences in my practice, or that of my other single person. I know of but one physician who has had two cases in his own practice. I have not had one in my own. Physicians may and do pass whole lives without observing cases which may not be rare in those of others, and this too without the least suspicion of their want of skill, or of knowledge. *

I have other cases, I think, but my notes are not at hand, which I regret,

as it would give me pleasure to have sent you the whole.

The recoveries in my cases, are about ten per cent. * * I remain your friend, &c.

W. CHANNING.

Several cases of ruptured womb have occurred here. In four of them the women were not delivered.

[CASE CCLXX.]-In one of these, in which I was especially consulted, the woman refused to have anything done after rupture occurred. In another,

[Case CCLXXI]—the medical attendant preferred that the case should be left to nature.

[CASE CCLXXII.]—In a third, the child was turned, and advanced well, until the head was to enter the brim. Here was delay. The woman said, "I am dying; will you stop till I am dead?" She died in a few minutes, and it was then very satisfactorily ascertained, that the diameter (the conjugate) of the brim was so much diminished as to provent the entrance of the standard feetal head, except by very powerful effort, and it was during such, as I was informed by the medical attendant, rent occurred.

[CASE CCLXXIII.]—In a fourth ease in which I was consulted, death occurred before delivery; and, because, of the opposition of the patient to any operation. I examined the woman after death. The fixtus was lying among the intestines. The womb was well contracted, presenting a flattened thick mass, perfectly white, except in the part of it in which repture had occurred. Here it was thin, thin as a membrane, and perfectly black. The contrast between this state of things, and of that which bordered it, was most striking. The extent of which the thinning process had extended, was a space judged to be equal to the surface of two hands' breadth. It was through the centre of this the child had escaped. It was in a portion of the womb which very exactly corresponded to one in the

abdomen—viz: the left iline region, and extending upward from that—in which the woman had experienced much soreness and tenderness, in the latter months of pregnancy, and which she ascribed to her habit of resting that part of the uterino tumour against the washing tub, at which she almost daily worked, for self-support, and to support her family. There is another fact of interest in this case. The head, which had been forced fairly down into the pelvis by the pains, did not in the least recede after rupture, but remained just where it was before the rent occurred. Nay more, so fairly impacted was the head, that it was with great difficulty that I could draw it back again, after opening the abdomen, and to do which I was desired to make the post-morten examination. A writer has recently advanced the doctrine, that in a majority of cases of rupture, there is preceding, and predisposing disease of the womb. This opinion has some confirmation in this case. There was found a state of the organ, or a part of it, entirely different from its condition elsewhere, and which was certainly preceded by symptoms denoting a murbid condition of the part.

In two cases dropsy of the fatal head existed. The water was discharged by perforation after turning, and because the head could not pass until reduced in size.

[Case CCLXXIV.]—In one of these, sudden and exerciating pain in one groin and above it, immediately preceded the rent, perfect repose following the accident. The woman survived till the fifth day, promising to do well, and then rapidly sank without the supervention of disease which was marked by any distinctive symptoms.

[CASE CCLXXV.] - In the other case, death occurred soon after delivery.

In two cases a remarkable lesion of the womb was discovered after death, and which seemed allied to a morbid condition which might have preceded labour, but in which labour was the exciting cause of the lesion alluded to. In both the

placenta was retained.

[CASE CCLXXVI.]—In the first, I saw the woman some days after the delivery of the child, on necount of symptoms resembling very nearly those of puerperal peritmitis. I was told that the placenta was retained, and that the woman had suffered much since the birth of her child. I found the placenta projecting somewhat beyond the os uteri, and that it was moveable. I brought it away. It was eylindrical in shape; long, round; of a light gray colour and very firm, as if it ind been strongly compressed by the womb. Some temporary relief followed its removal, but in a few days after symptoms of grave peritonical inflammation came on, and thu woman died.

Upon examination, sero-purulent effusion, with masses of floating lymph were found in the abdomen. The womb was found contracted, but in shape corresponding to that of the placenta, and at the top of it having an opening which communicated into its cavity and with that of the peritoneum. An absects had formed in the substance of the womb at its fundus, and from this pus was passing into the

abdominal eavity.

[CASE CCLXXVII.]—In another ease; the second of the above, of anomalous uterino lesion, labour in its two first stages was well accomplished. The placenta was retained. The cord parted; attempts were made to deliver the placenta. They failed. I saw the patient at this time and advised, after an examination, to make no farther forcible effort to bring away the placenta, but to wait, and to be governed by circumstances. The patient was for a few days comfortable. Then signs an peritoneal inflammation occurred. Sho was seized with very severe and forcing pains. Examination was made, but the os uteri was found firmly closed and would not admit of passing the hand or a finger. The pains at length subsided. The patient sank and died. Death occurred more than a week after the child was born.

Upon examination the uterns was found at its fundus, to have experienced a lesion through which about half of the placenta was found protruding from its cavity into that of the abdomen. The opening was circular; a form which wounds in the womb are apt to assume, in consequence of the equal action of its muscular fibres.—(See Charles Bell on Muscularity of the Uterns.)

Rupture of the womb is often preceded by very violent and distressing pain, in

the midst of some one of unusual severity, the organ gives way.

[CASE CCLXXVIII.]—A case occurred in which nothing of this kind happened. Labour; second child; was wholly natural and easy. The physician was surprised to find, on examination after a pain, made to ascertain what was the progress of the labour, that the head had receded from the position it had just before occupied. Not that it had increly done so as is common during the uterine relaxation which follows pains, but that it had much exceeded the ordinary measure. He found that by gentle pressure the head receded more and more, and soon being left to itself, that it entirely passed out of the pelvis. Rupture was thus at once declared and soon showed its ordinary effects. The child was delivered by turning. It was found entirely out of the womb, and lying among the intestines.

Reaction now took place; no violent symptoms attended this; the patient was comfortable. She lived five days after rupture, and in a condition so slightly morbid as almost to have encouraged hopes of recovery. I learned the above particulars of this case from the medical attendant; not having seen it till at a

inceting for a post-mortem examination which circumstances prevented.

[Case CCLXXIX.]—I was one day dining with a friend in the country. He told me his garduner's wife had been in labour that day, and that the womb had given way, and she was not delivered. I went in to see her. I found her much sunken, restless, vomiting, cold, pulse small and very rapid. Her appearance was miserable enough. I muw learned that the rent had occurred at 11 A.M. I told my friend that I should much like to see the physician, and he was sent for. He came between three and four P. M. and after consultation, it was agreed that an attempt should be made to deliver. I began the operation at four o'clock. Upon passing the hand, the pelvis was found perfectly empty, and at the anterior part of the abdomen, just beyond the symphisis pubis, I felt a hand of the fœtus, its fingers being toward my hand. I passed my hand, guided by the fætal arm, till I reached the trunk, and then the feet, and gently brought them down. The turning was new accomplished, and an opiate given. Mrs. T. now rallied. Her stomach became quiet; pulse, &e., improved, and there was no mero constitutional trenblo than so grave a lesion should be accompanied by. This state of things continuing some days, she suddenly sunk on the fifth day and died.

Upon examination it was discovered that the ront had occurred, and extended from puints correspunding to the superior and anterior spines of the ilia. It was a wide gaping fissure, so much se that you looked through it, directly across the

neck, to its pesterier face.

[CASE CCLXXX.]—I have seen another easo in which the rent was transverse of the collum uteri. This was a first labour, patient between thirty and forty years old. The labour was long, but in no sense a severe one. Rupture was attended by subsidence of pain, sinking and recession of the head of the fixtus. This last was not so entire as to prevent the use of the forceps. This woman died seventeen days after the rupture. I saw her because of symptoms indicating severo disease in the abdomen. For some days recovery was locked for. She sunk at last without any severe precursory tremble, and till late, espècially, free from the ordinary signs of grave peritencal or abdominal disease.

She was examined after death, and the evidences were streng of much more grave lesions than were indicated in the ordinary way during life. Adhesions had taken place extensively in the organs in and about the place. Abseesses were discovered in the place where adhesion was most marked. Rupture had taken place directly across the neck of the womb in its posterior face, and was about one and three-fontths inches in length. Contraction had taken place and explained the small extent occupied by the rent. Its edges were ragged, and gave no proof

that restorative process had taken place.

[CASE CCLXXXI.]—In one case of rupture death had occurred before I reached the house. The rent, as discovered by dissection, was longitudinal, of great extent, and involving the neck and vagina, a very usual complication. The womb was not at all contracted.

[CASE CCLXXXII.]—A case occurred in a neighbouring town. The child was turned and brought away. Death occurred soon after. In this case the rent was of great extent, the hand passing freely into the cavity of the abdomen.

[CASE CCLXXXIII.] -- I attended a woman some years ago, and after the birth of

the child, I had occasion to pass my hand into the womb to ascertain what caused rotention of the placenta. I first reached a mass projecting from the womb, which I soon ascertained was not the placenta; and being guided by the cord reached the placenta, separated, and removed it. The woman did well. In her next labour, she employed another physician. The arm presented. Another physician was called in, and turning agreed on. This was done Soon after the woman sunk and died.

Upon examination, a large polypons tumour was found projecting from the ostateri, and a large rent of the womb, involving the vagina. I examined the womb after it was romoved, and found it to be perfectly uncontracted, presenting a large organized bag, with a tear through much of its length. It is very probable that, in this ease, the dragging of the child through the ostateri, partially filled as it was by the polypus, and the resistance of this last to the progress of the fætus,

probably led to the accident.

[Case CCLXXXIV.]—Case of circular polypus; polypus surrounding the os uteri. In this case the patient had suffered for some time from descent of the womb, so that it was external, and the tumonr was thus distinctly diagnosed. The polypus sprung from the edge of the mouth of the womb, by a very thick base, and of singular firnness. She suffered much by menorrhagia, or uterine hemorrhage. She became pregnant, and when examined during labour, one of the upper extremities was found presenting. I was called to see her. She lived about thirty miles from Boston, and when I reached the address, I found the labour was over, the medical attendant having delivered by turning. The child was dead, and, from the separation of the skin everywhere, and much distension from gns, it was pretty clear it had been dead some hours. Two or three inputers had occurred in the circumference of the polypus, one of them very deep, and which I carefelly examined, extended into the month and neek of the womb. The other rents were less distinct. This woman recovered. It certainly was a case which, in its extreme complication and previous history, seemed to present the least prospect of recovery; still it did well.

The treatment was mainly resolved into such a use of opinm as would positively provent pain, and keep the bowels perfectly quiet, and this for days; such a use of calonel as would secure alterative effects, and limit inflammation as far as possible to such a degree of it as might be necessary for the ostablishment and continuance of the restorative process, and such an employment of the catheter as would supersode the natural functions of the bladder. The use of opium was suggested by what is known of its bonoficial effects in some cases of perforation of the intestines in typhoid fever, and from other causes; of calonel, from its supposed power to control inflammation, or to keep it within the demand. The reselt of the case, whatever may have been the therapeutic dectrines or agencies, was wholly satisfactory. The case was one of questionless rupture, and the pa-

tient recovered.

[Cases CCLXXXV., CCLXXXVI.]—Two cases have occurred, one of which came under my notice, and the post-mortuary appearances of both of which I have examined, which were of much interest, as showing how fatal may be the consequences of apparently very slight uterine lesions occurring in labour. In these cases the only uterine tissue which had given way was the peritoneum. In one of them much more extensively than in the other, and principally about the origin of one of the Fallopian tubes. The lesions consisted in fissures of the peritoneum, as if it had been cut through with a knife. This form of rupture, if such it can be called, has been described by the late Dr. Charke, brother of Sir Charles Mansfield Clarke, so distinguished by his writings on the diseases of females. Dr. C. describes cases of sudden death after labour, preceded by symptoms closely resembling those of rupture, and in which no other lesion was discovered after death, than the peritoneal fissures referred to.

[Case CCLXXXVII.]—Two cases of rupture occurred in the practice of the same physician, and to which he called one in consultation. The first was a case of exceedingly easy labour. It was long and troublesome, but it was almost painless. Ergot was given to increase pain. Rupture happened without any warning,

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and was followed by its ordinary signs. The child was turned. Doath took place a day or two after delivery.

[CASE CCLXXXVIII.]—In the second of these cases, the labour was severe. The exceeding destitution of the patient made her case much more wretched than it might, under other circumstances, have been. The child was turned, in a state of hopoless exhaustion of the woman, and death soon took place.

[CASES CCLXXXIX., CCXC.]—I have met with two cases, in which rupture was limited to the vagina. In both of these, death occurred, and under circumstances similar to those which mark the other cases in this paper.

[CASE CCXCI.]—A caso occurred hero fivo or six years ago, in which rupture happened without its necustomed precursors of severe pain, or local symptoms indicating disease of the womb. The woman was most unfavourably situated, being one of our most wretched, squalid Irish. Her labour proceeded without unusual violence, until it was noticed that the head, the presenting part, had receded, and was at length out of reach. Turning was reserted to soon after, or as soon as a consulting physician was found, and the child brought from the peritoneal cavity through the natural passages. There was no question of rupture, as the child was found lying among the intestines. The symptoms immediately produced by rupture, and those which followed, were strongly marked. Still she lived on. At length, when apparently doing well, she became dissatisfied with her regular medical attendants, dismissed them, and sent for some one clso; and, notwithstanding the utter wretchedness of her condition, and sovere privations, she perfectly recovered. She has had a child since, and did well.

[Case CCXCII]—The latest easo to which I refer, is of recont dato. Circumstaneos were deemed to make it necessary to apply the forceps, while the head was yet above the brim of the polvis. The effort failed. The forceps were well applied, and all safe force used. The perforator was next resorted to, and then the crotehet. After as many as four hours of uninterrupted effort, the child was delivered. Very soon after, the symptoms of ruptured womb showed themselves. These were rapid pulse, cold, damp skin, rostlessness, sinking. But a symptom most relied on, was the occurrence of ntympanitic enlargement of the abdomen, in which the distension was suddenly produced, and which soon became of great size. The skin seemed stretched to the utmost, so thin, in short, as to show that the distending air was very near to the surface. The woman died the morning following delivery. An examination was not permitted. I have no question of the accuracy of the diagnosis in this case, as the physicians in attendance had observed unequivocal examples of the uterine lesion under consideration.

Of the above, in four death occurred before delivery. In two after the opposition of the patient to any operation for her relief. In a third, the physician thought it not expedient to operate. In n fourth, the patient being conscious of coming death, asked that the removal of the child might be deferred till after that event.

In two cases dropsy of the hend existed.

In two enses the placenta was retained, it being impossible to remove it until after death, in one, and until a short time before death, in the other. In both, the womb was found communicating with the peritoneal envity, in its fundus—and in one in which the placenta had not been delivered, it was projecting from the womb into the cavity of the abdomen.

In two cases the rent was transverse. In one of these it was neross the anterior part of the womb, corresponding to the brim of the pelvis; the woman living five days. In the other it was across the posterior face, the

woman surviving seventeen days.

In two eases polypus existed. In both of them the upper extremity presented. In one the polypus arose from the inside of the organ by a pedicle. The child was turned; the woman died soon after, and an exnmination showed a longitudinal rent of the womb of great extent, involving the os uteri. In the other, the polypus was eircular, surrounding the os uteri.

In this the child was turned, and recovery followed. The ruptures here, for there were more than one, involved the polypus and os uteri.

In two cases rupture was confined to the peritoneum; both fatal.

In two cases rupture limited to vagina; both fatal.

In two eases recovery."

The following is from a communication with which we have been favoured by the politeness of Prof. C. D. Meigs, of Philadelphia.

"I have met with a few eases of rupture of the womb in labour, all of

which proved fatal within some twenty or thirty hours.

The cases that have fallen under my notice, have not been recorded by me, and I cannot, therefore, give you the particulars of them. I am aware that some of them, at least three, followed the ergotic contractions induced by the imprudent exhibition of secale cornutum.

[Case CCXCIII.] - In a case that occurred this spring, the gentleman administered the erget at midnight, or a little later, and the child escaped into the peritoneum at about 2 A. M. Her fato was announced-but as she lingered longer

than was expected, I was called at 7 P. M.

I proposed to perform gastretomy; but as the child could be touched through the rent in the vagina and cervix, it was deemed unadvisable to execute this purposo. Whereupon I withdrow it, by means of my eraniotomy forceps, after making perforation of the eranium. The woman was sensible, though pulseless all the while, and quite conscious of her dying state. The operation was most fatiguing to me, and painful and exhausting to her, as the child was very large, and the pelvis a very bad one, which had caused laborious labours before. She survived the extraction for some hours.

A post-morten examination showed me, that it would be far more humane in all such cases to extract the child by a gastrotomy operation, as the least painful, and least mischievous. I bitterly regretted having changed my purpose, and am now fully resolved in all future cases of rupture and escape to open the abdomen. admit that a woman might recover, the child being left unextracted, but such good fortune is nover to be expected. A hasty and speedy removal of the child and secondines gives, in my opinion, a chaace not greatly inferior to that in Casarean section."

The following case occurred in the practice of a friend in this city, by whom we were requested to see the nationt soon after the occurrence of the accident.

[Case CCXCIV.]—Dcc. 23d, 1846.—At 3 A.M., we first saw the patient. Her condition was as follows. She lay upon her back with the knees partially drawa up; countenance pale and denoting great anxiety; face and upper extremities bedowed with perspiration; the lower extremities cold; was almost insensible, and when arensed complained of pain and sereness in the abdomen; pulso execedingly rapid; the abdemen very sensitive to pressure; and the distended bladder felt distinctly above the pubes.

The doctor stated that he was called to the patient between nine and ten e'clock. the preceding evening. Ho was teld that pains came on about midday, when a midwife was called in, who soen left, believing that labour had not commenced. Unfortunately sho returned in the evening, and left indubitable ovidences of her officiousness: the labia being greatly swellen and livid; and the poor patient assured the dector that this woman had "pulled her almost to death."

At the time of the deeter's arrival, the pains were moderate and even, as he considered, of deficient ferce, seeming rather dilating than expulsory. The head was in the eavity of the pelvis, about outering the inferior strait; the brow prosenting, and the outlet was somowhat diminished in its transverse diameter. The patient had been delivered one year before of a living child, by means of forceps. Pains being so modorato that no suspicion of any danger to the uterus could be oxcited, and the bones of the head being very movable, the doctor determined to trust awhile to the efforts of nature.

Under this condition of things, about a quarter past two o'cleck, she suddenly complained of faintness, and at the same time expressed a belief that something had given way within her. Two or three feeble pains followed; vomiting ensued; the head retreated from the interior strait, and she fell into complete collapse.

Brandy was freely given her but rejected.

This was from one-half to three-fourths of an hour before our arrival. Notwithstanding the feeble character of the pains up to the time of the accident, there could be no doubt that rupture of the attents had taken plane. It was agreed to continue administering brandy freely for awhile in order if possible to bring on reaction. A gum catheter was introduced, and about a pint and a half of urine drawn off, of the colour of strong coffee; an attempt to introduce the silver catheter some time previous, had failed. A hard tumour was new felt in the right side of the abdomen just below the margin of the ribs, presenting about the size and feel of a contracted attenus after delivery; below it nothing could be distinctly felt through the abdominal walls, the whole abdomen being, in fact, too sensitive to permit of any accurate examination. During twenty or thirty minutes she took over half a pint of brandy which she retained; under its influence, intelligence returned; the countennues brightened; and she had considerable strength to assist in changing her position. There was not, however, a corresponding improvement of the pulse, and it was agreed that the only chance for herself or child was immediate delivery, though little expectation could be entertained of saving either.

The space between the tuberosities of the ischia appeared to be less than three and n half inches. The head rested on the brim of the pelvis, with its long diameter corresponding to the transverse diameter of the superior strait, and movable. Some blood flowed from the vagina when the hend was disturbed. Version was contra-indicated by the contracted entlet; the choice was between the perforator and forceps, and though ne attempt was made to ascertain if the child were alive, because of the difficulty of distinguishing the pulsations of its heart from those of the iliae arteries of the mother, which were new as frequent as those of the focus; yet in order to give it a chance, if alive, the ferceps were selected. The blades were introduced withent difficulty, and just being locked, when it became apparent that the poer creature was sinking. The forceps were accordingly withdrawn, the patient replaced upon the bed, and in a few minutes she expired.

Post-mortem.—Fenr hours after death whole surface of the body blanched. Abdomen very tense and distended; contracted fundus felt in the right side, and could be grasped in the hand; in the left hypochondrium a limb could be felt en deep pressure. Upon laying open the peritoneal cavity liquid blood gushed out, and from three to four quarts were removed. The locus lay in the left side of the abdomen, the head only remaining within the merine eavity, the lacerated edges contracted around the neck. The placenta was lying in the peritoneal cavity, a small pertion only remaining still attached to the fundus uteri. The fundus and the portion of the body not surrounding the head of the focus was firmly contracted. She had evidently perished from hemorrhage.

The rent was irregular and ragged, involving the posterier and lateral aspect of the cervix, renning up into the body of the womb and down into the vagina.

The word was apparently somewhat thinned at the place of runture.

Professor Bedford, of the University of New York, has kindly furnished us with the six fellowing enses, additional to those already quoted from his valuable additions to Chailly's Midwifery.

[CASE CCXCV.] Oct. 10, 1844.—Mrs. II., of Williamsbergh, was taken in labour with her fourth child. When labour commenced she sent for a midwife; shoulder presentation; arm came down; midwife made violent traction on it. Fourteen hours after labour began I was sent for; found the patient much prostrated, with more or less constant vomiting; child undelivered; month of womb relaxed. I turned, and delivered her of a living son. Neck of the uterus had boen ruptured by rode manipulations of the midwife. Patient recovered after four weeks extreme feebleness.

[CASE CCXCVI.] Dec. 9, 1844.—Dr. Burtsell sent for me to see Mrs. A., who had been in labour four days. Before Dr. B. had arrived, n physician in attend-

ance had administered ergot freely. The pelvis, though not deformed, was small. Vemiting and prostration; head at the interior strait. The weman's strength failing, I applied the forceps, and delivered her of a living son. After-birth was retained; introduced the hand to remove it, and found a small rupturo in the anterior surface of the womb just above the cervix. Patient recovered in two weeks without one untoward symptom, except great weakness.

[Case CCXCVII.] June 14, 1814.—I visited a patient of Dr. Ostrem, in New Jersey; patient in labour thirty-seven hours when I first saw her. Pains had been violent, but no progress in the labour, except the month of the uterns was dilated to the extent of a four shilling piece. The patient possessed an extremely rigid fibre; ordered bleeding to twenty onnees, followed by a solution of tartar emetic. Pains continued vigorous; mouth of the wemb dilated a fraction more, and became softer; no further progress in delivery after six hours. During a violent pain, something was heard to give way; this was followed by vomiting and great prestration, with cold extremities. I suggested the prepriety of turning, and performed the operation, and delivered the patient of a living sen. The wemb was ruptured on the left of the cervix, and the putiont survived twenty-four hours.

[CASE CCXCVIII.] Jan. 18, 1846.—Mrs. N., in the ninth menth of pregnancy, was struck on the abdomen with a stone. Labour came on, with vemiting and sickness; cold extroinities, &c. &c. There was ruphure of the womb. She was delivered naturally in four hours of her third child. Died in twelve hours from the effects of rupture.

[Case CCXCIX.] March 3, 1845.—Dr. Reiloy requested me to see Mrs B. with him. She had been in labour ten hours when I saw her; no progress notwithstanding violent contractions. On examination, found the cervix in a state of scirrhus, and rupture at the fundas. The child had partly escaped into the abdomen. The woman died three hours after my arrival. The nbdomen was opened, and the child removed. If I had arrived in time, I should have laid open the month of the uterus with a bistoury.

[Case CCC.] Jan. 16, 1847.—I was requested by Dr. Thomas to visit a lady in West Chester, who had been in labour twenty hours. The arm protruded through the vagina, and had been in this situation for six hours. Patient had suffered most acutely from violent and increasing pain. One hour before I had arrived she was seized with great prostration and vomiting; there was rupture of the cervix; pelvis sunth, though not deformed. I turned and delivered her of a living daughter. The mother recovered in two weeks.

"These six cases, with the five mentioned in my note in Chailly, eleven in all, are the eases I have met with in my practice. Of these eleven, in three the mother recovered, and four children were delivered alive. You will please remember that in every case I was called in consultation."

Dr. Wm. R. Wagstaff, of New York, late Resident Physician of the Lying-in Asylum, during a practice of eight years, in which he has attended nearly twelve hundred patients in their confinements, has had three cases of rupture of the womb. The first is Case CCIII. of our series.

[CASE CCC1.]—"The second was in a patient of Dr. Ira B. Blakoman. Sho was a strong, healthy Irish woman, who had given birth to three full-time living children, without any preternatural difficulty. In this labour, her fourth, the doctor was summoned in the evening, and upon examination, found a natural vertex presentation, parts dilatable, pains recurring at proper intervals, and not unusually fercible; in short, all the evidences of an easy, natural labour. The membranes gave way soon after the es was fully dilated, and as the head was engaging in the superior strait; in half an heur after their rupture, the head being in the inferior strait and pressing on the perineum, during a pain she exclaimed that something had snapped in her side." The pain instantly ceased, and there was no recurrence of contractions of the uterus afterwards.

I was immediately summened by Dr. B, and arrived about an hour after the accident; she was then complaining of a continuous lancinating pain in the opi-

gastric region, with constant vnmiting. I applied the forceps to the head, and delivered at once without difficulty. The child was a male, weighing about seven pounds [and dead]. No contraction followed the delivery of the child, and upon passing my hand into the cavity of the nterus for the purpose of exciting contractions, and effecting the delivery of the placenta, I found a large quantity of intestines producing into it through a laceration of considerable extent on the anterior side near the fundus. No contraction of the interns ever took place, nor could reaction be established, although stimulants were freely administered. She died fourteen hours after delivery. A post-mortem examination was denied.

[Case CCCII.]—In the early part of this summer, I was called to attend Mrs. C., a strong, healthy woman, in labour with her fourth child. Her first had been born without any artificial assistance, after a protracted labour of five days. Her second was delivered by instruments. Her third I had delivered with instruments thirteen months proviously, at the request of her attending physician, on account of inertia of the uterus. When summened to attend her in her last confinement, I found upon examination a vertex presentation, os uteri dilated fully, parts flaceid, pains foreiblo, but not musually violent, and everything progressing naturally. In a short time the membranes ruptured spontaneously, and in a half hour afterwards, the head having reached the inferior strait, she experienced a sensation of something giving way during a pain, which immediately ceased. Having waited for fifteen minutes, and observing no recurrence of the propulsive efforts of the interus, and being alarmed by her enutinuous complaint of a sharp lancinating pain in the epigastric region, I made examination per vaginam, and found that it was impossible to reach the child, and that the es uteri was firmly contracted. On passing my hand over the abdomen I distinctly felt the forms beneath its parietos, and low down, just under the arch of the pubes, a firm, hard ball, which I at once recognized as the contracted interns. On necount of the difficulty always attendant upon obtaining a medical consultation in the night, it was four hours before the operation of gastrotumy was performed. In the presence of Drs. Powers, Whittaker, and several others, I opened the abdomen through the linea alba, and found the child and secundines in the cavity of the peritoneum, together with a large quantity of blood and water, all of which was carefully removed, and the uterus firmly contracted, and down in the cavity of the pelvis. Tho child was a male, weighing nine pounds, and dead. The lips of the wound were brought in apposition and retained by six sutures. It was found necessary to administer stimulants freely during the operation, and in fact during the whole rosidue of her life. She nover so rallied as to admit of the abstraction of blood, nor was it thought advisable to apply blisters. Twelve hours after delivery she commonced discharging from her stomach a large quantity of dark green-coloured fluid, mixed with such nourishment as had been taken, amounting to more than a gallon in twenty-four hours, and this she continued up to the time of her death, which took place six days after the operation. Her bowels were daily evacuated by the excitement of enema. Ice was kept constantly applied over the abdomen. The upper part of the wound healed by the first intention, the lower part remained open, and through it there exided continuously a greater or less quantity of bloody finid. I regret that no examination, post-mortem, could be obtained.

Case CCCIII.—A specimon of rupture of the interior will of the uterus and of the bladder, by the forcible introduction of the forceps.—Museum of New York Hospital, presented by Dr. Watson.

In the next number of this Journal we propose to consider the symptoms of rupture of the uterus, the cause, both remote and proximate, of this accident, its pathology, and the mast successful mode of managing it, as deduced from the cases we have collected.